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info@codersready.com

https://codersready.com

JOB ORIENTED COURSES

with Globally Accepted Certificate

www.codersready.com

Our International Quality Education Certifications

Coders Ready is globally recognized as a top –tier education Provider for industry based technologies.

Our ISO Certification number is – QVA-CSRY-22-125689

To verify coders ready's accreditation click here - https://www.gaafs.us/

Content

About Coders Ready

Coders Ready is a global leader delivering a wide Job oriented Courses of Artificial Intelligence , Data Science and Emerging Technology . We are a trusted training delivery partner of 72+ corporate clients and universities across the India with 1400+ professionals trained across various Courses. Our high quality training programs designed and delivered by industry experts themselves. Coders Ready has helped institutions and industries in continuing with their knowledge delivery with a mix of technical knowledge and practical implementation.

Message to Future Codecrats

If you are here, that means you have taken the right step to learn and empower yourself with an indispensable skill of this century i.e. "CODING". I would like to welcome you to our community of learners.

Coders Ready was started with the sole vision of shaping college students for the industry as it is well observed that students of science, engineering, commerce and management or of any discipline experience a huge gap in college curriculum and industry need, and to bridge that gap, Coders Ready is wholeheartedly committed.

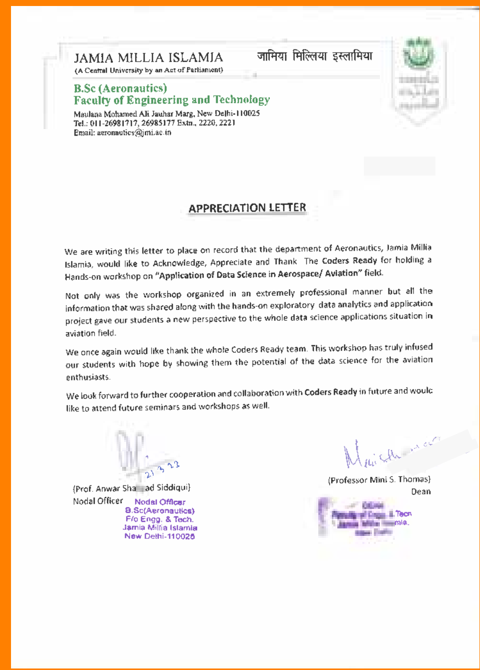
According to Analytics Insights, India will capture 32% of the big data market worldwide and generate USD 20 billion by 2026. Another report by AIM Research suggests that the Indian analytics industry is predicted to escalate to USD 98 billion in 2025 and nearly USD 119 billion in 2026. Currently, the demand for data scientists is at an all-time high in India. Analysts have predicted around 11 million job openings in data science by 2026 in India alone.

So, whether you are just starting out in your tech journey with data or are an experienced developer looking to expand your skills, we have a wide range of courses and resources available to help you achieve your goals. Our team of expert instructors is dedicated to providing high - quality, practical, and engaging learning experiences.We are excited to work with you and make you Industry ready with consequential skills. Thank you for choosing our institute, and we look forward to supporting you on your learning journey.

Events, MoU & Apprenticeships

"Proud Official **Sponsor of iRAD-2024, hosted by IIT Indore** - Empowering Innovation, Transforming Futures."

"Proudly announcing MOU signings with 72+ colleges and universities for impactful skill development partnerships!"



JAMIA MILLIA ISLAMIA जामिया मिल्लिया इस्लामिया
(A Central University by an Act of Parliament)
B.Sc (Aeronautics)
Faculty of Engineering and Technology
Maulana Mohamed Ali Jauhar Marg, New Delhi-110025
Tel.: 011-26981717, 26985177 Extn., 2220, 2221
Email: aeronautics@jmi.ac.in

APPRECIATION LETTER

We are writing this letter to place on record that the department of Aeronautics, Jamia Millia Islamia, would like to Acknowledge, Appreciate and Thank The **Coders Ready** for holding a Hands-on workshop on **"Application of Data Science in Aerospace/ Aviation"** field.

Not only was the workshop organized in an extremely professional manner but all the information that was shared along with the hands-on exploratory data analytics and application project gave our students a new perspective to the whole data science applications situation in aviation field.

We once again would like thank the whole Coders Ready team. This workshop has truly infused our students with hope by showing them the potential of the data science for the aviation enthusiasts.

We look forward to further cooperation and collaboration with **Coders Ready** in future and would like to attend future seminars and workshops as well.

21/3/23
(Prof. Anwar Shahzad Siddiqui)
Nodal Officer
Nodal Officer B.Sc(Aeronautics) F/o Engg. & Tech. Jamia Millia Islamia New Delhi-110025

(Professor Mini S. Thomas)
Dean

School of Aeronautics (Neemrana)
I-04, RIICO Industrial Area, Neemrana, Dist. Alwar, Rajasthan

Ref:

Letter of Appreciation

This letter of appreciation is awarded to "CODERS READY" for organizing excellent workshops in our college and providing hands-on experience in Artificial Intelligence and Data Science. The support provided by "Coders Ready" was critical in ensuring a smooth completion of various projects during all workshops. It was an enormous undertaking but went very smoothly and efficiently!

Thanks to your leadership, dedication, and the teamwork and energy of your staff, our students are now more confident in learning Artificial Intelligence and Data Science. Coders Ready should take great pride in this accomplishment.

I personally would like to extend my gratitude towards each member of the Coders Ready team and also express my wish for our collaboration to prosper in future workshops, seminars, and courses with "CODERS READY."

Thanking You,
Cordially

Prof.(Dr.) Birendra Rai
Principal

Place: Neemrana

HIMACHAL INSTITUTE OF ENGINEERING AND TECHNOLOGY

Ref No HIET / 2023/

Dated: 02 May 2023

APPRECIATION LETTER

We Are writing this letter to place on record that the department of Computer Science Engineering Himachal Institute of Engineering & Technology Shahpur Kangra (H.P) 176206 would like to acknowledge, appreciate and thanks the coders Ready for holding a hands on workshop on "Data Science with Python" on dated: 02 May 2023.

Not Only was the workshop Organized in an extremely professional manner but all the information that was shared along with the hands on exploratory data analytics and application project gave our students a new prospective to the whole data Science applications.

We once again would you like to thanks the whole coders Ready team. This workshop has infused our students with hope by showing them the potential of the data science in the real world.

We look forward to further cooperation and collaboration with coders Ready team in the near future and would like to attend future seminars and workshops as well.

With regards

INTERNATIONAL INSTITUTE OF TECHNOLOGY & MANAGEMENT (IITM) MURTHAL
Approved by AICTE, NEW DELHI & Affiliated to DCRUST, Murthal
49 KM, G.T. Karnal Road (NH-44), Murthal-131039, Distt. Sonepat, (NCR-DELHI) Haryana

Appreciation Letter

We are writing this letter to place on record that the department of CSE/BCA, IITM Group of Institutions, would like to acknowledge, appreciate and thank the Coders Ready for holding a hands on workshop on "Data analytics, App development using Python"

Not only was the workshop organized in an extremely professional manner but all the information that was shared along with the hands- on exploratory data analytics and application project gave our students a new prospective to the whole data science applications.

We once again would like to thank the whole Coders Ready team. This workshop has truly infused our students with hope by showing them the potential of the data science in the real world.

We look forward to further cooperation and collaboration with Coders Ready team in the near future and would like to attend future seminars and workshops as well.

With best wishes

M-98128-00642, 0130-2483022-25, Fax : 0130-2483021
Website : www.iitmanagement.com E-mail : iitmmurthal@gmail.com

Our Industrial Experts

Mann Singh

IIT Indore , Ex-RI (NESAC(ISRO)), Ex-TE , ITR (DRDO)
Active Researcher, Atmospheric & Space Science Engineering. AI & ML for Climate Informatics, Remote sensing , Radar Meteorology & Rain Micro Physics, Satellite Based Navigation & Drones Operations 7+ Years of Teaching Experience

Narendra Kumar

IIT Kharagpur,
ML Engineer in Exponentia I Machines software Pvt. Ltd.
6+ Year Exp.

Siva Kumar

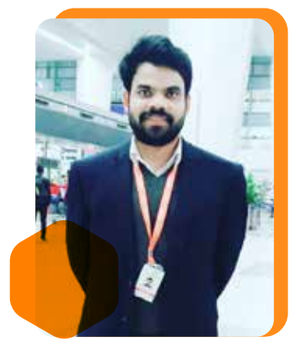
JDE Architect | AWS DevOps| Certified AWS Solution Architect | Terraform , Dockers , Kubernetes Expert| Prometheus and Grafana |GIT | GIT HUB| Jenkins | Ansible| AWS
14+ Year Exp. (Wipro, HCL)

L S Kiran CH

Engineering Lead | Data Solution Architect | Big Data Engineer | Enterprise Data Integrations | DevOps-CI/CD
12+ Year Exp. (Tata Communication)

Sandeep Kumar Sharma

IIT Kharagpur
Lead Data Scientist at Tiger Analytics
7+ Year Exp.



Raghvendra Upadhayay

Ex -Software Engineer DRDO
|Full Stack Software Engineer
| Creating Elegant Solutions for Complex Problems
6+ Year Exp.

Palagiri Hrushikesh

Senior DevOps Engineer - Cloud Consultant
6+ Year Exp. (Wipro)

Satya Sasi Kanth Seethina

Cloud and Devops Engineer at Deloitte
| AWS & GCP Associate Certified - Associate
| SRE
6+ Year Exp. (Deloitte)

Sita Rami Reddy Lankireddy

Senior Data Scientist | Advanced NLP |computer Vision |MLOps |Build Retrainable Decision Agents
5+ Year Exp.

6- Month Courses

1

Data Science with Python

For Certified Professional Data Scientist.

2

Data/ Business Analytics

For Certified Professional Data / Business Analyst.

3

Data Science & Cloud Computing

For Certified Professional Cloud & Data Engineer.

4

Cloud Computing & DevOps

For Certified Professional Cloud & DevOps Engineer.

5

Advance Python / Software Development & Engineering

For Certified Professional Python Developer.

6

Full Stack Web Development & Software Engineering

For Certified Professional Software Development Engineer.

Competitive Offering

01 Job Assistance, Career Track Development & Networking

Interview Preparation sessions, Mock Job Interviews, Professional E-Portfolio Development, Social Media Profiling and online Presence, Job Search Strategies and Applications.

02 Customized Training

Training Deliver as per Interest Area/ Domain/Project need, Industry Ready Case studies, Content Updated according to the Industry content.

03 Continuous Assessments

Quizzes, Practices, test, Assignments, Mini Projects and Major Projects.

04 Personal Growth & Learning

Workshops, Seminars/Webinars, Bootcamps, Hackathons, Internships, Training and Industrial visits

05 Personality Development

Soft Skill Development & Resume/ CV building, Industrial & Business Communications (Oral, Written & Presentation), Personality Development

06 24 / 7 Support

Phone, Chat, Email, Project Support/ Learning Management System and Personal Dashboard and Application

07 High-Quality Training Program

30+ Trainers, Direct Online Training Sessions from Industrial Experts face-to-face, Content Updated every Quarter, Weekly Mentoring Sessions, Tutorial and Doubts Classes.

08 Global Certifications & E-Learning Quality Content

Hallmark Certifications from GAAFS, ISO, MSME, Recorded Videos, Notes, Live-Real Projects, Industry Ready Content

Our Catalog


Data Science & AI
Linux
Mobile Development
Web technologies & Testing
Microsoft/. Net
Operating System
Java/J2EE & Design Patterns
Project Management
Digital Marketing
CRM
Ethical Hacking
Cyber Security
Cloud Computing
ETL/ Data Warehouse / Database
Big Data
Data Analytics
Programming Languages & Frameworks
Business Intelligence & Business Analytics
High Quality Content
24/7 Support
Help from Experts
Professional Certification
Career Track Development
Personality Development
Industry Exposure
Professional Assessment
Outcome Oriented Customized Training
Coders Ready

Program Highlight

01 Data Science with Python

Duration	Modules	Course AddOns
2 Months	Python	1-Workshop 2-Boot Camp 6-Industry Projects 1-Main Project
2 Months	Machine Learning	2-Workshop 1-Boot Camp 5-Industry Projects
2 Months	Deep Learning	2-Workshop 1 -Boot Camp

02 Data/ Business Analytics

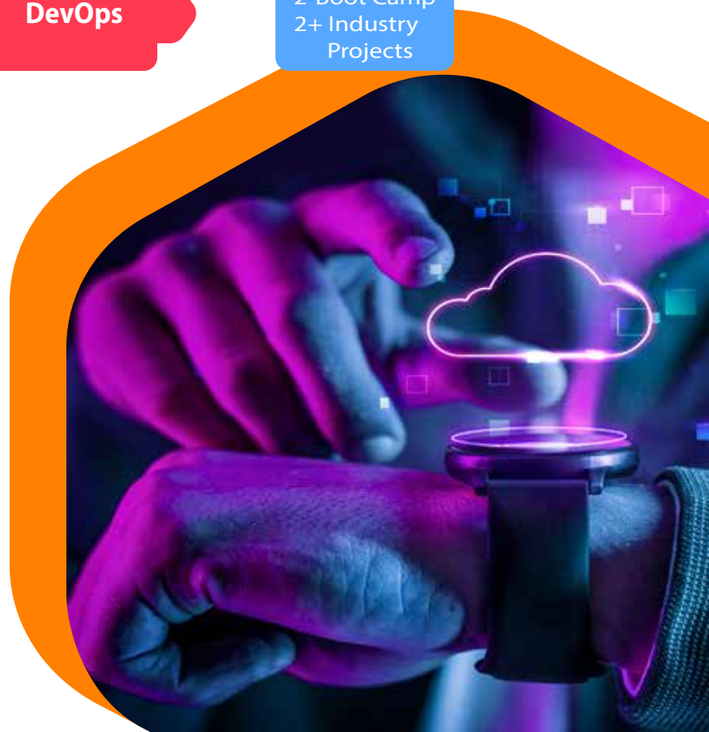
Duration	Modules	Course AddOns
15 Days	MS Excel	1-Workshop 2+ Industry Projects
15 Days	Google sheets	
1 Months	SQL	1-Workshop 2 -Boot Camp 2+ Industry Projects
1 Months	Tableau	1-Workshop 2+ Industry Projects
1 Months	Power BI	1-Workshop 2+ Industry Projects
1 Months	Statistics	1-Workshop 2+ Industry Projects
1 Months	Python Data Analytics	1-Workshop 3-Industry Projects 1-Boot Camp 1 Main Project

03 Data Science & Cloud Computing

Duration	Modules	Course AddOns
1 Months	Cloud Computing with Amazon Web Services (AWS)	
2 Months	Microsoft Azure	2- Industry Projects
1 Months	Professional Data Science	1- Workshop 2- Industry Projects
1 Months	Diving Deep into the Science of Machine Learning	1-Workshop 2- Industry Projects 1- Bootcamp
1 Months	Introduction to Deep Learning	1-Workshop 2- Industry Projects 1- Bootcamp

04 Cloud Computing & DevOps

Duration	Modules	Course AddOns
2 Months	Cloud Computing with Amazon Web Services (AWS)	1-Workshop 2+ Industry Projects
2 Months	Microsoft Azure	1-Workshop 2+ Industry Projects
2 Months	DevOps	1-Workshop 2-Boot Camp 2+ Industry Projects



05 Advance Python /Software Development & Engineering

Duration	Modules	Course AddOns
15 Days	Basic Python	1-Workshop
1 Months	Advance Python	1-Workshop 2+ Industry Projects
1 Months	Advance Tools for Python Development	1-Workshop 2+ Industry Projects
15 Months	Testing/ Scripting/ Scrapping in Python & Git + GitHub	1-Workshop 2+ Industry Projects
15 Months	Web Development with HTML	1-Workshop 2+ Industry Projects
1 Months	CSS & Javascript	1-Workshop 2+ Industry Projects
15 Days	Automation/ Testing with Selenium	2+ Industry Projects
1 Days	Professional Python for Data Science & Data Analytics Tools	1-Bootcamp 2+ Industry Projects 1- Main Project

06 Full Stack Web Development & Software Engineering

Duration	Modules	Course AddOns
15 Days	Introduction to Web Development	2+ Industry Projects
1 Months	Front-End Development	1-Workshop 2+ Industry Projects
1 Months	Back-End Development	1-Workshop 2+ Industry Projects
15 Days	Full-Stack Development Tools and Workflow	1-Workshop 2+ Industry Projects
15 Days	Front-End Frameworks and Libraries	1-Workshop 2+ Industry Projects
15 Days	Back-End Frameworks and Libraries	1-Workshop 2+ Industry Projects
1 Months	Database Management and Integration	2+ Industry Projects
15 Days	Deployment and Hosting	1-Workshop
15 Days	Advanced Topics in Full-Stack Development	1-Bootcamp 2+ Industry Projects 1- Main Project

Program Curriculum

01 Data Science with Python

MODULE 1: BASIC PYTHON (Kick-starting Python Programming)

CHAPTER 0: Kick-Starting Python
- 0.1 Introduction of Python Language.
- 0.2 Distribution of Python Software.

CHAPTER 1: Python in real-time industry
- 1.1 Taste of online IDEs

CHAPTER 2: Python Language Fundamentals
- 2.1 Tokens & Syntax.
- 2.2 Numbers & variables.
- 2.3 Simple Input and Output.
- 2.4 Barebones of the program

CHAPTER 3: Data Handling
- 3.1 Data types
- 3.2 Data Structures

CHAPTER 4: Control flow in Python coding
- 4.1 Conditional Decision making statements.
- 4.2 Looping Statements

CHAPTER 5: Working with Functions
- 5.1 Built-in/User-Defined Functions
- 5.2 Advanced / Special Function and other Miscellaneous remaining topics

CHAPTER 6: Competitive Coding
- 6.1 Integrating Basic Python concepts
- 6.2 Problem-Solving

MODULE 2: ADVANCE PYTHON (Advance Python Concept)

CHAPTER 7: Python Collection, Sorting and Searching
- 7.1 Types of Collections.
- 7.2 Types of Sorting / Searching.

CHAPTER 8: OOPs for Python
- 8.1 Various Concepts of OOPs.
- 8.2 Implementation of OOPs.

CHAPTER 9: Errors and Exceptions
- 9.1 Types of Errors.
- 9.2 Exception & Termination.
- 9.3 Error Handling.

CHAPTER 10: Python GUIsFuctional Programming
- 10.1 Working with Tkinter.
- 10.2 Introduction to Kivy and PyQt.
- 10.3 Development Basics and App Developments.

CHAPTER 11: Library & Python Modules
- 11.1 Inbuild modules in Python.
- 11.2 Various types of packages and modules.
- 11.3 Date Time module

CHAPTER 12: File Handling
- 12.1 Different types of file formats
- 12.2 File Handling using Python

MODULE 3: PROFESSIONAL PYTHON (Professional Python for Data Engineers)

CHAPTER 11: Introduction to Python Pro (TAMING THE DATA)

- 11.1 Understanding Data.
- 11.2 Playing with data.
- 11.3 Introduction to Python based ML/DL and Data analytics.

CHAPTER 12: Role of Statistics in Data Science

- 12.1 Intro to statistics, Central tendency, standard deviation, variance
- 12.2 Inferential Statistics, Types of Probability Distribution

CHAPTER 13: Data Science 101

- 13.1 House warming to Arrays.
- 13.2 Analysis and Manipulation of data.
- 13.3 Working with plots and charts
- 13.4 Hands on practice
- 13.5 Exploratory Data Analysis

MODULE 4: MACHINE LEARNING (Advanced Coding for Machine Learning Professional)

CHAPTER 14: Diving Deep into Science of ML

14.0 Introduction to ML

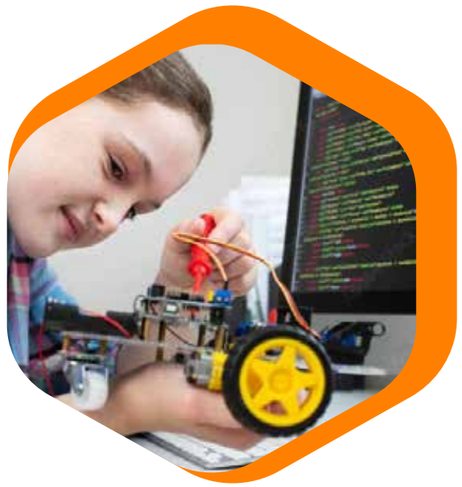
1.Programming with Python
2. NumPy with Python
3. Learning Pandas for Data Analysis
4. Understanding of Matplotlib Programming Library -
5. Glance at seaborn for data visualizations

14.1 Understanding Machine Learning with SciKit Learn

14.2 Different types of ML:

1. Supervised Machine Learning
   a) Classification
      1. Random Forest Algorithm
      2. Decision Tree Algorithm
      3. Naive Bayes
      4. Logistic Regression Algorithm
      5. K-Nearest Neighbor
      6. Natural Language Processing
      7. Support Vector Machine Algorithm
   b) Regression
      1. Simple Linear Regression Algorithm
      2. Lasso Regression
      3. Ridge Regression
      4. Multivariate Regression Algorithm
      5. Decision Tree Algorithm
      6. Lasso Regression

2. Unsupervised Machine Learning
   a) Clustering
      1. K-Means Clustering algorithm
      2. Hierarchal clustering
      3. Mean-shift algorithm
      4. DBSCAN Algorithm
      5. Principal Component Analysis
      6. Independent Component Analysis
   b) Association
      1. Some popular algorithms of Association rule learning are Apriori Algorithm, Eclat, FP-growth algorithm
      2. Semi-Supervised Machine Learning
      3. Reinforcement Learning



14.3 Model Deployment

14.4 Live Industrial & Research Projects on various ML Algorithms

MODULE 5: DEEP LEARNING (Advanced Coding 2.0 for Data Science Learning Professional)

CHAPTER 15

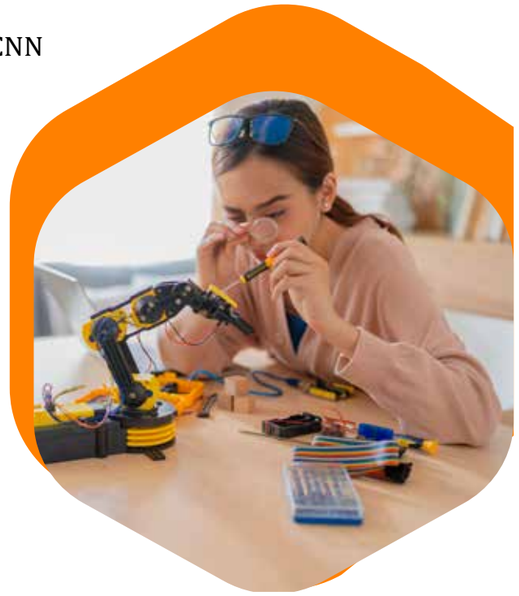
15.0 Introduction to DL

15.1 Machine Learning and Neurons
1. Machine Learning
2. Neuro
3. Model Learning
4. Making Predictions
5. Saving and Loading Model
6. Introduction to keras

15.2 Feedforward Artificial Neural Network
1. Artificial Neural Networks
2. Forward Propagation
3. Activation Function
4. Multiclass Classification
5. Working with images
6. NN for Classification
7. NN for regression

15.3 Convolution Neural Networks
1. Convolution
2. CNN Introduction
3. Working with examples using CNN

15.4 Recurrent Neural Networks
1. Sequence Data
2. Forecasting
3. Time Series Prediction
4. RNN introduction
5. RNN on Time Series
6. RNN for Image classification
7. Intro to LSTM



15.5 Working on Recommender system

15.6 Project - Transfer Learning

15.7 Generative Adversial Networks
1. GAN introduction
2. Creating GAN

15.8 Working with Tensorflow

15.9 Loss Function in deeplearning

15.10 Deployment
1. Create a model
2. Model Prediction function
3. Running with basic flask application

15.11 Live Industrial & Research Projects on various DL Algorithms

02 Data/ Business Analytics

MODULE 1: MS EXCEL

1.1 Manage Workbook Options and Settings
1.2 Apply Custom Data Formats and Layouts
1.3 Create Tables
1.4 Perform Operations with Formulas and Functions
1.5 Create Charts and Objects
1.6 Manage Workbook Options and Settings
1.7 Apply Custom Data Formats and Layouts
1.8 Create Advanced Formulas
1.9 Create Advanced Charts and Tables

MODULE 2: GOOGLE SHEETS

2.1 Basics
2.2 Functions
2.3 Pivot tables and dashboards

MODULE 3: SQL

3.1 Operators and Queries
3.2 Advanced Queries
3.3 Advanced functions

MODULE 4: STATITICS

4.1 Intro to statistics, Central tendency, variance
4.2 Inferential Statistics, Types of Probability Distribution
4.3 Exploratory data analysis, Data Preprocessing
4.4 Hypothesis testing (parametric tests), Chi square test and 1 way ANOVA

MODULE 5: TABLEAU

5.1. Introduction to Tableau

5.2 Basic Data Visualisation

5.3 Advance Data Visualisation

5.4 Building view Advance Map Option

5.5 Data Preparation

5.6 Advance Data Preparation

5.7 Data Visualisation Principles

5.8 Basic Filter/Managing your Data

5.9 Building Interactive Dashboard/Advanced Filtering and Action

5.10 Basic Calculation

5.11 Advance Calculation

5.12 Grouping Data/Dynamic Representation

5.13 Analytical Topic/Capability

5.14 Formatting

5.15 Dashboard Design

5.16 Sharing Your Dashboard

MODULE 6:Power BI

6.1 Introduction To Power BI

6.2 Creating POWER BI Reports, Auto Filters

6.3 Creating POWER BI Reports, Auto Filters

6.4 Chart And Map Report Properties

6.5 Hierarchies And Drilldown Reports

6.6 Power Query & M Language

6.7 DAX EXPRESSIONS - level 1

6.8 DAX EXPRESSIONS - level 2

6.9 Power BI Deployment & Cloud

6.10 Power BI Cloud Operations

MODULE 7: Python Data Analytics

7.1 Understanding Data

7.2 Playing with data

7.3 Introduction to Python based ML/DL and Data analytics.

7.4 Intro to statistics, Central tendency, standard deviation, variance

7.5 Inferential Statistics, Types of Probability Distribution

7.6 House warming to Arrays.

7.7 Analysis and Manipulation of data.

7.8 Working with plots and charts

7.9 Hands on practice

7.10 Understanding Data

7.11 Playing with data

7.12 Introduction to Python based ML/DL and Data analytics.

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7.14 Inferential Statistics, Types of Probability Distribution

7.15 House warming to Arrays.

7.16 Analysis and Manipulation of data.

7.17 Working with plots and charts

7.18 Hands on practice

03 Data Science & Cloud Computing

MODULE 1: Cloud Computing with Amazon Web Services (AWS)

1.1 Introduction To Linux
1.2 Introduction To Cloud Computing
1.3 Elastic Compute Cloud
1.4 Amazon Simple Storage Service(S3)
1.5 Virtual Private Cloud (VPC)
1.6 Load Balancer & Autoscaling
1.7 Cloudwatch
1.8 Cloud Trail
1.9 Relational Database (RDS)
1.10 Simple Notification Services (SNS)
1.11 Simple queue Service (SQS)
1.12 Identity & Access Management (IAM)
1.13 Dynamo DB
1.14 Intro to Git & Github

MODULE 2: Microsoft Azure

2.1 Intro to Azure
2.2 Implementing & Managing Azure Network
2.3 Network Security Groups (NSG)
2.4 Azure Firewall
2.5 Implementing & Configuring Azure Virtual Machines
2.6 Designing & Implementing Azure Load Balancing
2.7 Azure DNS& Azure Standard Load Balancer
2.8 Configuring Azure Application Gateway
2.9 Configuring Auto Scaling with Virtual Machine Scale Sets(VMSS
2.10 Planning and implementing Azure Storage
2.11 Azure SQL Database
2.12 Implementing Azure App Services
2.13 Implementing Azure Active Directory
2.14 Configure Diagnostics, Monitoring, and Analytics
2.15 Azure Migrate projects and customer billing optimization
2.16 Azure NAT Gateway
2.17 Introduction to Azure Resource Manager
2.18 Azure Function & Logic Apps
2.16 Azure NAT Gateway
2.17 Introduction to Azure Resource Manager
2.18 Azure Function & Logic Apps

MODULE 3: Professional Data Science

3.1 Cloud & DataScience
3.2 History Of Data
3.3 Taming the Data Formats
3.4 Role of Statistics in Data Science
3.5 Use of Statistics and Probability in Data Science
3.6 Data Science 101
3.7 Most Essential LIbraries & Packages for Data Science
3.8 Exploratory Data Analysis

MODULE 4: Diving Deep into the Science of Machine Learning

4.1 Introduction to ML
4.2 Understanding ML with SciKit Learn
4.3 Different types of Algorithms
4.4 Model Deployment

MODULE 5: Introduction to Deep Learning

5.1 Machine Learning & Neurons
5.2 Feedforward Artificial Neural Network
5.3 Convolution Neural Network
5.4 Recurrent Neural Network
5.5 GAN & Tensorflow
5.6 Model Deployment

04 Cloud Computing & DevOps

MODULE 1: Cloud Computing with Amazon Web Services (AWS)

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MODULE 2: Microsoft Azure

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2.2 Implementing & Managing Azure Network
2.3 Network Security Groups (NSG)
2.4 Azure Firewall
2.5 Implementing & Configuring Azure Virtual Machines
2.6 Designing & Implementing Azure Load Balancing
2.7 Azure DNS& Azure Standard Load Balancer
2.8 Configuring Azure Application Gateway
2.9 Configuring Auto Scaling with Virtual Machine Scale Sets(VMSS
2.10 Planning and implementing Azure Storage
2.11 Azure SQL Database
2.12 Implementing Azure App Services
2.13 Implementing Azure Active Directory
2.14 Configure Diagnostics, Monitoring, and Analytics
2.15 Azure Migrate projects and customer billing optimization
2.16 Azure NAT Gateway

2.17 Introduction to Azure Resource Manager
2.18 Azure Function & Logic Apps

MODULE 3: DevOps

3.1 Introduction to DevOps
3.2 Version Control Systems
3.3 Continuous Integration and Delivery (CI/CD)
3.4 Containerization with Docker
3.5 Infrastructure as a Code (IaaC) - Terraform
3.6 Container Orchestration (Kubernetes)
3.7 Configuration Management Tool (Ansible)
3.8 SDLC and Agile

05 Advance Python /Software Development & Engineering

MODULE 1: Basic Python

- 1.1 Kick-starting Python
- 1.2 Python in real-time industry
- 1.3 Python Language Fundamentals
- 1.4 Data Handling
- 1.5 Control flow in Python coding
- 1.6 Working with Functions

MODULE 2: Advance Python

- 2.1 Python Collection, Sorting and Searching
- 2.2 OOPs for Python
- 2.3 Errors and Exceptions
- 2.4 Library & Python Modules
- 2.5 Python GUIsFuctional Programming
- 2.6 Core Python Development

MODULE 3: Advance Tools for Python Development

- 3.1 SQL & Databases in Python
- 3.2 Python MongoDB
- 3.3 Django Frameworks
- 3.4 Introduction to Flask

MODULE 4: Testing/ Scripting/ Scrapping in Python & Git + GitHub

- 4.1 Testing in Python
- 4.2 Scripting in Python
- 4.3 Scripting in Python
- 4.4 Image Processing
- 4.5 Scrapping data with Python
- 4.6 CWD: Git + Github Basic
- 4.7 GitHub Update: Master --> Main
- 4.8 Contributing To Open Source

MODULE 5: Web Development with HTML

- 5.1 Introduction to HTML
- 5.2 HTML Fundamentals
- 5.3 Positioning
- 5.4 Advanced HTML
- 5.5 HTML tag reference XHTML

MODULE 6: CSS & Javascript

- 6.1 Introduction & Basic Fundamentals of CSS
- 6.2 Bootstrap3
- 6.3 Advanced CSS & Bootstrap4
- 6.4 Migrating to Bootstrap5
- 6.5 Deployment of the website
- 6.6 Introduction to Javascript
- 6.7 Fundamentals
- 6.8 Advanced Function concepts
- 6.9 Advanced Object concepts
- 6.10 Addon Special Bonus concepts

MODULE 7: Automation/ Testing with Selenium

- 7.1 1Automation/Testing with Selenium
- 7.2 Introduction to Selenium

MODULE 8: Professional Python for Data Science & Data Analytics Tools

- 8.1 History Of Data
- 8.2 Taming the Data Formats
- 8.3 Role of Statistics in Data Science
- 8.4 Use of Statistics and Probability in Data Science
- 8.5 Data Science 101
- 8.6 Most Essential LIbraries & Packages for Data Science
- 8.7 Exploratory Data Analysis
- 8.8 MS Excel and Google Sheets
- 8.9 Tableau for Visualization

06 Full Stack Web Development & Software Engineering

MODULE 1: Introduction to Web Development

- 1.1 Overview of web development
- 1.2 Client-side vs. server-side development
- 1.3 Introduction to front-end, back-end, and full-stack development
- 1.4 Essential tools and technologies for web development

MODULE 2:Front-End Development

- 2.1 HTML5: Structure and semantics
- 2.2 CSS3: Styling and layout
- 2.3 Responsive web design using CSS frameworks (e.g., Bootstrap)
- 2.4 JavaScript fundamentals
- 2.5 DOM manipulation and event handling
- 2.6 Introduction to JavaScript frameworks (e.g., React, Angular, Vue)

MODULE 3: Back-End Development

- 3.1 Introduction to server-side programming languages (e.g., JavaScript/Node.js, Python, Ruby, PHP)
- 3.2 Building RESTful APIs
- 3.4 Database fundamentals (SQL vs. NoSQL)
- 3.5 Introduction to databases (e.g., MySQL, MongoDB)
- 3.6 Authentication and authorization
- 3.7 Error handling and debugging

MODULE 4: Full-Stack Development Tools and Workflow

- 4.1 Version control with Git and GitHub
- 4.2 Package management using npm (Node.js) or yarn
- 4.3 Task runners (e.g., Gulp, Grunt)
- 4.4 Webpack and module bundling
- 4.5 Continuous integration and deployment (CI/CD)

MODULE 5: Front-End Frameworks and Libraries

- 5.1 Advanced JavaScript concepts (e.g., closures, promises, async/await)
- 5.2 Single-page application (SPA) development with React.js
- 5.3 State management with Redux or Context API
- 5.5 Routing with React Router
- 5.4 Building interactive UI components
- 5.5 Testing front-end applications

MODULE 6: Back-End Frameworks and Libraries

- 6.1 Express.js: Building web servers and APIs with Node.js
- 6.2 MVC architecture
- 6.3 Authentication and authorization using Passport.js
- 6.4 Database interaction with Mongoose (MongoDB) or Sequelize (SQL)
- 6.5 REST API best practices and design patterns
- 6.6 Error handling and logging

MODULE 7: Database Management and Integration

- 7.1 Relational database management systems (RDBMS)
- 7.2 Database design and normalization
- 7.3 CRUD operations (Create, Read, Update, Delete)
- 7.4 Data modeling and schema design
- 7.5 Working with NoSQL databases (e.g., MongoDB)
- 7.6 Using ORM/ODM libraries for database interaction

MODULE 8: Deployment and Hosting

- 8.1 Setting up development and production environments
- 8.2 Containerization with Docker
- 8.3 Deploying applications to cloud platforms (e.g., Heroku, AWS, Azure)
- 8.4 Server management and scaling
- 8.5 Monitoring and logging
- 8.6 Security best practices for deployment

MODULE 9: Advanced Topics in Full-Stack Development

- 9.1 Real-time communication with WebSockets
- 9.2 Microservices architecture
- 9.3 GraphQL for API development
- 9.4 Serverless computing
- 9.5 Performance optimization techniques
- 9.6 Web security and best practices

Certification

1. Course Completion Certificate

2. Internship Completion Certificate

Projects Domain

Our Instructors come up with the latest & new live projects with Unique Research/ Industry data. All the projects are curated according to the domain of the students. Major Applications of the project in varied domains include Analysis, Prediction and App/web app/Software Development. Here are some of the domains mentioned in which students are given hands-on over hundreds of projects.

Project Domains

Banking Sector
Retail / Service Sector
E-Commerce
Finance & Accounts
Insurance
Supply Chain
Stocks & Share Market
Product Quality Assurance
Entrepreneurship / Startups
Agriculture Sector
Entertainment Sector
Business Sector
Sports Sector
Education Sector
Healthcare Sector
Real Estate / Construction / Housing
Web & Social Media
Artificial Intelligence
Data Engineering
Sentiment / Emotion / Behavioural Analysis
Image / Video / Signal Processing
Public Sector
Cyber Crime
Fraud Detection & Security
Digitalization
Population/ Census prediction
Engineering
Earth & Space Science
Aerospace / Automobile
Physics & Geo-physics
Remote Sensing
Disaster Management

Suitable Job Roles after the course

Data Analyst
IT Professionals / Support
System Analyst / Engineer
Analytics Manager
Business Analyst
Financial Analyst
Security Analyst
Statistician
Quantitative Analyst
Quantitative trader
AI / ML Practitioner / Engineer
AI / ML Scientist
Analytics Manager
BI Specialist / Engineer
Data Scientist
Computer Vision Engineer
Algorithm Engineer
Research Engineer
Big Data Engineer
Data Quality Manager
Web Developer
UI / UX Designer
Software Development Engineer
Java / Full Stack Developer
Database / Network Administrator
Python Developer
Cloud Engineer
DevOps Engineer
MLOps Engineer

Hears from Our Learners

Mr. Sujith Kumar
Senior Machine Learning Engineer at Exponential AI
Hyderabad, Telangana, India

Careers in Code has opened up possibilities for my future. It has given me a solid foundation of full-stack coding skills, as well as an introduction to people in the Syracuse tech community. I'm excited to continue growing those skills and connections to the community.

Mr. Himanshu Vishwakarma
Chatbot Developer
Quess Corp Limited ,Delhi, India

Being a student in Coders Ready was beyond amazing, the staff and my fellow students were so supportive throughout the entire Course. Getting this opportunity showed me that it's never too late to learn a new skill and there are definitely people willing to support you the entire way.

Mr. Siddharth Sharma
Senior Manager Analytics
Mirum India

"Careers in Code has been a game changer for my career, and has opened up so many amazing opportunities. I feel prepared and ready to grow my presence and career in the tech community in Syracuse."

Mr. Gaurav Kumar
IIT Roorkee

My teacher explains each concept clearly and also takes doubt sessions if I want to learn something again. Thank you Coders Ready for giving such an awesome platform to prepare for Coding Career.

Mr. Santosh Kumar Mahto
Software Engineer - Data Science at Exponential AI
Hyderabad, Telangana, India

Before Coder Ready , I had a hard time grasping basic concepts in code and development. I was learning alone aimlessly, Coders Ready gave me structure and an amazing team of instructors and valuable resources. Not once was I left to learn alone, being assured that even after graduating I can still reach out is invaluable.

Mr. Rohit Sharma
Sr. Analyst at Ameriprises Financial
Gurgaon, Haryana, India

Learned so much about coding and a lot about myself. I went from having zero experience in Coding to having so much knowledge about the field and the expectations required to thrive in the industry. I was so insecure going in the program, but over time I learned to take risks and allow myself to explore different areas and different ways of doing things.

Mr. Rehan Raza
Python Developer
DRDO

"I was given the opportunity to follow the class online and even though I knew things by learning on my own or working in the field prior to Careers in Code , I learned a lot from the instructors and from helping the students with their projects. It was an amazing experience that made me grow as a developer overall by helping others to go over the bumps I went on my own years ago.

MD SAMEER KAMAL
Python Developer
Stellantis

I can honestly say if it was not for this Coders Ready Course I would not have a job, and I would not be as advanced as I am. What we learned in Careers in Code directly applied to my day to day work. I learned so much about Machine Learning & Python.

Leading organizations hire Coders Ready's students

accenture
wipro
CONCENTRIX
Capgemini
INFOCEPTS Data & AI
AXTRIA INGENIOUS INSIGHTS
INTUIT
ANALYTTICA Data Science In Motion
EVALUESERVE
SIGMOID
abzooba A UST Company
HCLTech
TECH mahindra
TIGER ANALYTICS
MANTHAN
LatentView Actionable Insights • Accurate Decisions
hansa cequity ENRICHING CUSTOMER EQUITY
Infosys
skoruz INFINITE POSSIBILITIES
Mu Sigma
Course5 Transformative intelligence
Deloitte.
TATA CONSULTANCY SERVICES
IBM
Uber
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