

MACHINE LEARNING & DATA SCIENCE



Learn how to use NumPy, Pandas, Seaborn
Matplotlib , Plotly , Scikit-Learn , Machine
Learning, Tensorflow , and more!

Online Mode

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ABOUT CODERSARTS

Codersarts is a product of Sofstack

SofStack is software development company based in Noida, India. We are serving its clients across the globe. As passionate professionals of technology, Here you will find all sorts of services about our work as a Web Development, Mobile App Development, Technology Solutions for Business, Hiring dedicated developer for Project, IT Solutions, Database Development, Programming expert Help solutions. we provide all the programming expert help, guidance, and support my clients need in order to get good grasp of understanding and scaling business at the highest level.

ABOUT THIS PROGRAM

This course is designed for absolute beginners who want to learn Machine learning & data science whether you are new to ML or have prior experience on any programming languages. We keep in mind that while teaching candidate that he/she can learn Machine learning & Data science by the most easy and convenient ways and our training courses are so flexible to re- design course topics as per student caliber to provide equal opportunity to all at their pace.

Learn the fundamentals of Machine learning & Data science by top ML expert and practice problems. This course is aimed at complete beginners who have never programmed before, as well as existing programmers who want to increase their career options by learning Machine learning & Data science.

ML is one of the most popular programming languages now a day by many good reasons like machine learning, data science and artificial intelligence. To get those high paying jobs you need an expert knowledge of it, and that's what you will get from this course.

ABOUT THIS PROGRAM

So, whether you want to learn Machine learning & Data science to get job in programming domains or want to build your first apps or want to switch job to Machine learning & Data science technology Let you wish your dream and we will guide to achieve you wish.

There couldn't be a better time for you to join the world of Machine learning & Data science!

WHAT YOU'LL LEARN

- Have a fundamental understanding of the Python programming language.
- Use SciKit-Learn for Machine Learning Tasks
- Use Python for Data Science and Machine Learning
- Implement Machine Learning Algorithms.
- Logistic Regression, Linear Regression
- K-Means Clustering
- Support Vector Machines
- Neural Networks
- Random Forest and Decision Trees
- Natural Language Processing and Spam Filters

WHAT YOU'LL LEARN

- Learn to use Pandas for Data Analysis
- Learn to use NumPy for Numerical Data
- Explore different IDEs to write Python programs or Code
- Learn to use Matplotlib for Python Plotting
- Learn to use Seaborn for statistical plots
- Hands - on and Exercise
- OOps Concept

PROGRAM CURRICULUM

1 UNIT 1 - NumPy Topics

2 UNIT 2 - Scipy Topics

3 UNIT 3 - Matplotlib, Data Visualization

4 UNIT 4 - sklearn Topics

5 UNIT 5 - Pandas Topics

6 UNIT 6 - Data collection and pre process

7 UNIT 7 - EDA

8 UNIT 8 - Feature engineering

9 UNIT 9 - Model selection procedures

10 UNIT 10 - Machine Learning Pipeline

11 UNIT 11 - Projects and Hands-on

UNIT 1 - NUMPY

- a powerful N-dimensional array object
- sophisticated (broadcasting) functions
- tools for integrating C/C++ and Fortran code
- useful linear algebra, Fourier transform, and random number capabilities

UNIT 2 - SCIPY

- high-level scientific computing
- File input/output: `scipy.io`
- Special functions: `scipy.special`
- Linear algebra operations: `scipy.linalg`
- Interpolation: `scipy.interpolate`
- Optimization and fit: `scipy.optimize`
- Statistics and random numbers: `scipy.stats`
- Numerical integration: `scipy.integrate`
- Fast Fourier transforms: `scipy.fftpack`
- Signal processing: `scipy.signal`
- Image manipulation: `scipy.ndimage`

UNIT 3 - MATPLOTLIB, DATA VISUALIZATION

- Understanding plt.subplots()
- Basic plots
- Advance plotting
- Visualizing arrays with matplotlib
- Plotting with the pandas + matplotlib combination

UNIT 4 - SKLEARN

- Supervised learning algorithms
- Unsupervised learning algorithms
- Model selection and evaluation
- Dataset transformations
- Dataset loading utilities
- Strategies to scale computationally: bigger data

UNIT 5 - PANDAS

- Arithmetic Operations
- Grouping by a Categorical
- Resample
- Upsampling
- Downsampling
- Rolling and Expanding
- Plotting

UNIT 6 - DATA COLLECTION & PRE PROCESSING

- Importing Data in Python
- Data Exploration
- The Dataset and the Data Dictionary
- Data conversions
- Bivariant analysis /variable conversions -non Usable variables
- Outliers

UNIT 7 - EDA

- Missing value treatment
- Dummy value creation
- handling
- Correlation Analysis
- Test train split
- Bias Variance trade-off

UNIT 8 - FEATURE ENGINEERING

- feature extraction
- catagorical data encoding
- onhotencoding

UNIT 9 - MODEL SELECTION PROCEDURES

- Regression
- Decision tree(intro with implementation)
- Bayesian(intro with implementation)
- SVM(intro with implementation)

UNIT 10 - MACHINE LEARNING PIPELINE

- Building project by completing all steps
- Model accuracy improvement
- Basic Hyper tuning
- Model comparison using standard techniques
- Preparing model for deployment

UNIT 11 - PROJECTS AND HANDS-ON

- Classification on iris dataset
- Disease prediction (diabetes dataset)
- Image classification on handwritten datasets
- Recommendation system
- Image classification
- Text classification
- Sentiment analyzer
- Facial image classification

PROGRAM REQUIREMENTS

- Interest to learn programming
- Computer with internet access
- A computer - Windows, Mac, and Linux are all supported. Setup and installation instructions are included for each platform
- Basic English understanding
- Basic Mathematical arithmetic

WHO IS THIS PROGRAM FOR

- People interested in programming who have no prior programming experience
- Newer Machine learning and data science programmers who need a refresher on their knowledge
- Students taking a ML class in school who want a supplementary learning resource
- Anyone else who is interested in learning Machine learning and data science
- This course is NOT for experienced Machine learning and data science Programmers.

PROGRAM HIGHLIGHTS

- 6 Months
- Online Course
- Certificate of completion
- Direct 1-on-1 link to your mentor
- Job-ready Portfolio on GitHub
- Hands-on, project-based learning
- Build internship-grade tech-projects
- Grow your career with real work experience
- Ongoing sessions and expert advice, on your terms.
- Work with leading tech mentors and gain access to personalized guidance .
- Regular check-ins and personal study plans, your mentor can help you with actionable support

We understand the impact of a solid mentorship on any student or professional's life. But, we were frustrated with expensive bootcamps, online MOOC courses & video programs with their lack of 1-on-1 coaching. That's why set out to build a platform that's affordable, offers rock-solid career advice & improves your life.



Browse Session

Select the available sessions based on you needs.



Quick booking

Book a session by clicking on book button of the interested service.



Pay Safely

Pay using secure payment options like PayPal and by other payment ways



Easy contact

Done! You're receiving all info you'll need for your session confirmation within 1 hour

PROGRAM DETAILS

DURATION

6 Months - 10 - 15 Hours /Week

PROGRAM FEES

36,500 INR, No Cost EMI: ₹ 6,083 / month

PROGRAM MODE

ONLINE

FOR ADMISSION

Contact us on
contact@codersarts.com

Our Executive will get in touch with you, for your smooth on-boarding in this program.