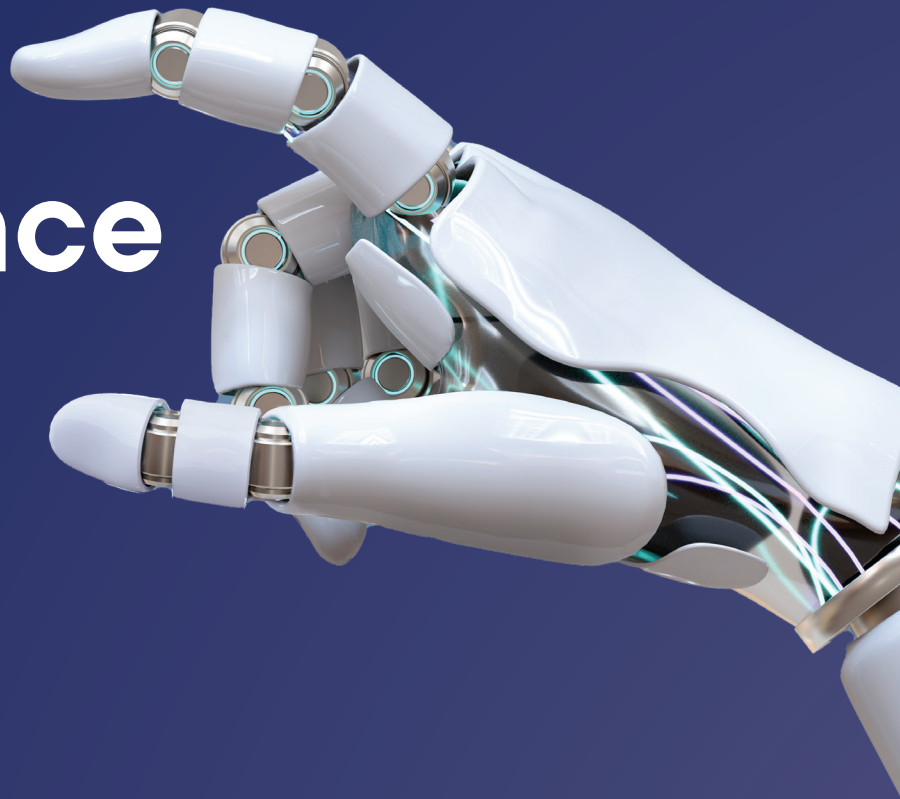


DATA SCIENCE

with

Artificial Intelligence



COURSE DURATION
5 Months

Course
Brochure

ONLINE
CLASSES

1 TO 1
ASSISTANCE

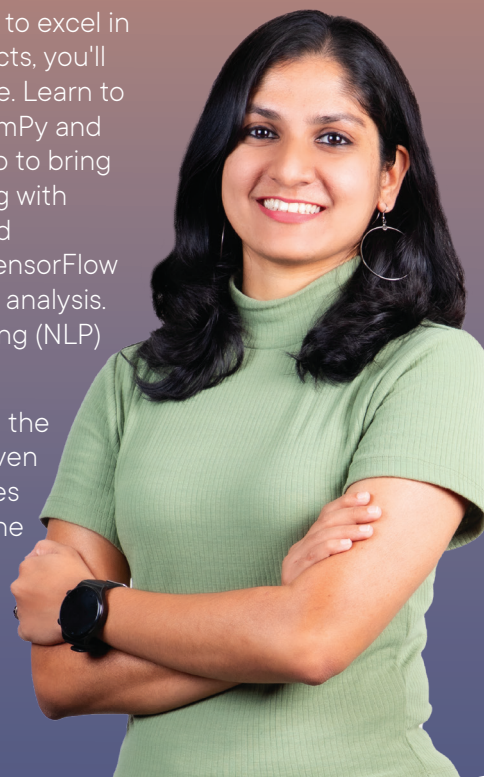
PLACEMENT
ASSISTANCE

0% INTEREST
LOAN

Course Overview

This Data Science with AI course equips you with the skills to excel in this booming field. Through hands-on exercises and projects, you'll master Python programming, the language of data science. Learn to clean and manipulate data using powerful libraries like NumPy and Pandas. Create stunning data visualizations with Matplotlib to bring your insights to life. We'll then delve into Machine Learning with scikit-learn, where you'll build algorithms for prediction and classification. Uncover the power of Deep Learning with TensorFlow and Keras, creating models for image recognition and text analysis. Process human language with Natural Language Processing (NLP) techniques using NLTK and spaCy.

Finally, explore computer vision with OpenCV and unleash the potential of Generative AI for data science applications. Even with no prior programming experience, this course provides a solid foundation, with extra exercises for beginners. By the end, you'll be able to tackle real-world problems using cutting-edge AI and data science techniques.



Relevance of Learning

This Course

The Data Science with AI course isn't just about learning tools. It's about equipping you with skills that are highly sought-after by businesses today. Data science and AI are revolutionizing how problems are solved and decisions are made. This course will prepare you to be a part of that revolution. By learning to analyze data, build models, and extract insights, you'll gain the power to tackle complex challenges across various industries. These skills are not only valuable but also versatile, giving you the ability to adapt to a future where data-driven decision making is the norm. Enrolling in this course is an investment in your future, giving you a competitive edge and opening doors to exciting career opportunities in the ever-growing field of AI and data science.

“

We're entering a new world in which data may be more important than software.

- Tim O'Reilly

Why Should you learn this course at Cokonet?



Handpicked trainers
with industry experience



Committed
placement support



Specialized grooming
sessions



360°
holistic upskilling



Career placement
and boosting opportunities

Course duration
5 Months

DATA SCIENCE

Who should study this course?

Whether you're looking for a complete career change or want to elevate your existing skillset, the Data Science with AI course is designed to empower you. Are you a business analyst or marketing professional yearning to understand customer data better? This course equips you with the tools to extract insights and make data-driven decisions. Recent graduates can gain a strong foundation in data science, making them highly competitive for tech industry jobs. Even if you're simply fascinated by AI and its potential, this course offers a fascinating glimpse into the future of data-driven innovation. With beginner-friendly exercises, this comprehensive program is perfect for anyone who wants to unlock the power of data and AI to solve problems and shape the future.

The most wanted
up-to-date courses
are now available in

Cokonet Learning App!



Syllabus

Module 1: Python

1. Introduction to Python Programming
2. Variables, local and global variables, loops, functions, programming exercises (Extra exercises to non-IT background students)
3. Python Strings: Replace, Join, Split, Uppercase and Lowercase String
4. Operators Lists, Tuples, Dictionary, Date&Time,- Files I/O Exceptions
5. Assignments

Module 2: NUMPY (Numerical Python)

1. Narray Object
2. Numpy arrays-Basic Operations,Universal Functions
3. Arange, linspace, logspace Indexing and Slicing Statistical Functions Dot Products
4. Matrix Multiplication
5. Assignments

Syllabus

Module 3: Pandas

1. Series
 - Create Series from dictionary and scalar data
 - Accessing data from Series
2. DataFrames
 - Features
 - Create DataFrame from Lists, dict, Series, NumpyArrays, Another DataFrame
 - DataFrame column Operations
 - Row Operations-append, loc and iloc
 - Panel
 - Basic DataFrame functionalities-shape, - head, tail, size
 - Descriptive Statistics
 - Reindexing and Renaming
 - Iterating and sorting
 - Working with Text Data
 - Working with missing data
 - Reading data from csv, excel etc
 - Assignments

Module 4: Data Visualisation using Matplotlib

1. Principles of Information Visualisation
2. Basic Charting
3. Charting Fundamentals
4. Applied Data Visualizations
5. Assignments

Module 5: Machine Learning using sklearn

1. Regression
 - Linear Regression
2. Classification
 - Logistic Regression
 - Naïve Bayes
 - SVM
 - Decision Tree
 - Random Forest
3. Clustering
 - KNN

Syllabus

- K-Means
- 4. K-Fold cross validation, Gridsearch CV, Model selection, Combining Models
- 5. Ensemble Methods – Bagging, Boosting, Voting.

Module 6: Deep Learning using TensorFlow and Keras

1. Introduction to Perceptron and Neural Networks (ANN)
2. CNN
3. RNN
4. LSTM

Module 7: NLP using NLTK and Spacy

1. NLP Introduction and Basics
2. Tokenization
3. Lemmatization
4. Semantics and word vectors
5. Stop words
6. Sentimental Analysis

Module 8: Computer Vision using cv2

1. Image processing and Computer Vision basics
2. Loading Images and Videos
3. Color and Shape detection
4. Face detection
5. Number plate detection

Module 9: Generative AI for Data Science

1. Introduction to Gen AI and LLM
2. Prompt Engineering
3. Data Science life cycle using Gen AI

Module 10: Azure for Data Science with MLOPs

1. Training ML models in Azure
2. Automating ML models
3. Orchestrating Pipelines
4. Deploying batch inference pipelines.
5. Monitoring Performance.



NIKHIL GOPALAN
Founder, CEO

I am thrilled to welcome you to our diverse and vibrant learning community. At Cokonet, we are committed to providing an educational experience that not only equips you with the latest in technology and business knowledge but also fosters innovation, creativity, and a passion for lifelong learning.

Our carefully curated courses are designed to meet the demands of today's fast-paced industries, ensuring that you are not just ready for the current job market but are prepared to lead in the future. Through a blend of theoretical knowledge and practical application, delivered by our team of industry experts, we aim to bridge the gap between academic learning and real-world challenges.

As you embark on this journey with us, you are not just signing up for a course; you are stepping into a community that believes in the power of knowledge, collaboration, and continuous improvement. We are here to support you every step of the way, from the classroom to your career, ensuring that your time at Cokonet is not just about gaining a qualification but about shaping your future.

I encourage you to take full advantage of the opportunities that await you here. Engage with your peers, challenge yourself, and don't hesitate to reach out to our dedicated faculty and staff who are here to guide you.

Welcome to Cokonet, where your future begins today!

15000+

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Track Record

16+ MNC's

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75+ Top

Career Courses

Cokonet Academy, a leading upskilling platform in India with 14+ years of expertise, offers authorized training in SAP, Tally, Microsoft, and Amazon. As one of India's 12 prestigious SAP Student Academy members, our partnerships with NSDC, CDIT, DDUGKY, and ASAP-Kerala highlight our commitment to excellence. Headquartered in Trivandrum, Kerala, our 10,000+ sq. ft facility focuses on skill empowerment with 70+ industry-relevant courses.

We prioritize job placement with dedicated support, industry-experienced instructors, and online live sessions. Collaborating with organizations, our research team identifies high-demand skills for maximum placement opportunities. Academic counselors guide individuals toward successful career paths. Cokonet Academy is a transformative force emphasizing social empowerment through access to quality education and career opportunities. Join us for a brighter future.

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75+ Courses

ONE DESTINATION

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academy

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