



GenXInstitute

Bridging Education To Industry

Data Science & AI

Industry-Integrated Program

3 Months Intensive Training + 2 Months Internship



Microsoft



Welcome To GenX

GenX Institute is built with one clear mission — to create industry-ready Data Science and AI professionals, not just certificate holders.

Students work on real datasets, build predictive models, and develop AI-powered applications using modern tools and frameworks used in the industry today.

This is not classroom-only learning. This is hands-on, project-driven Data Science and AI training.



Strong Placement
Network & partnerships



AI-assisted
development practices



Real-world
development mindset



Project-based AI
learning model

What you'll Master

Data Science Foundations

Python & R for Data Analytics

Deep Learning & Neural Networks

Natural Language Processing (NLP)

Statistical Analysis & Probability

Machine Learning Algorithms

Generative AI & LLM Concepts

**Data Visualization & EDA
AI Application Deployment**

Why join GenX institute?



Industry-Aligned Curriculum

Focused on real-world Data Science, AI, and analytics use cases rather than theory-only learning



Experienced AI Trainers & Mentors

Guidance from professionals with industry and research exposure



Hands-On Practical Training

Work with real datasets, ML models, AI frameworks, and deployment tools.



Career Support & Internship Assistance

Resume building, interview prep, and structured internship projects.

DAY 1-5

Data Science Foundations & Statistics

- Introduction to Data Science & AI
- Types of data (structured, semi-structured, unstructured)
- Data collection & data quality
- Descriptive statistics (mean, median, mode)
- Variance, standard deviation, distributions
- Basics of probability & hypothesis testing

DAY 26-35

SQL for Data Analytics

- Database fundamentals
- SQL queries (SELECT, JOIN, GROUP BY)
- Subqueries & aggregations
- Connecting SQL with Python
- CRUD operations for analytics

Mini Project: Data analysis using SQL

DAY 6-15

Python Programming for Data Analytics

- Python basics, syntax & logic building
- Data types, control flow, loops
- Functions & modules
- Object-Oriented Programming (OOP)
- File handling & exception handling
- Libraries introduction (NumPy, Pandas)

Mini Project: Python-based data processing

DAY 36-48

Machine Learning

- ML concepts & types
- Data preprocessing & feature engineering
- Regression & classification algorithms
- Clustering & dimensionality reduction (PCA)
- Model evaluation metrics

Mini Project: Predictive ML model

DAY 16-25

NumPy & Pandas for Data Analysis

- NumPy arrays, indexing & operations
- Vectorized computations
- Pandas Series & DataFrames
- Data cleaning & missing values
- Grouping, aggregation & merging
- Exploratory Data Analysis (EDA)

Mini Project: EDA on real-world dataset

DAY 49-55

Deep Learning

- Neural networks & activation functions
- ANN, CNN, RNN concepts
- Image classification & object detection
- TensorFlow / PyTorch basics

Mini Project: Deep learning application

DAY 56-60

NLP & Generative AI

- Text preprocessing techniques
- NLP pipelines & embeddings
- Transformer models & LLM concepts
- Chatbots & text generation

Mini Project: NLP / Generative AI application

DAY 61-65

Deployment &

Capstone Project

- Flask for AI application deployment
- Model integration & APIs
- Cloud basics (AWS)
- End-to-end AI project
- Review, evaluation & presentation

DAY 66

INTERNSHIP

INDUSTRY INTERNSHIP PROGRAM – 2 MONTHS (8 WEEKS)

After completing the 3-month intensive Data Science & AI training, students enter a structured industry internship focused on real-world problem solving.

INTERNSHIP FOCUSES ON

- Exploratory Data Analysis (EDA)
- Machine Learning & NLP projects
- Generative AI applications
- Model deployment & reporting

TOOLS & TECHNOLOGIES COVERED

Python | R | NumPy | Pandas | SQL | MySQL | Scikit-learn | TensorFlow | PyTorch | NLP Libraries | Flask | AWS | Jupyter | Colab

PROGRAM SUMMARY

- PROGRAM DURATION: 5 MONTHS
- 3 MONTHS INTENSIVE TRAINING
- 2 MONTHS INDUSTRY INTERNSHIP
- TRAINING MODEL: 20% THEORY | 80% PRACTICAL
- PROJECT-DRIVEN LEARNING APPROACH

INDUSTRY-RECOGNIZED CERTIFICATIONS



Course completion certificate from GenX Institute

COURSE DETAILS



Location ; kochi ,kerala

Duration : 3 month

+ 2 month internship

Time : Monday to Saturday
daily 3hr + projects



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