KineTEX INSTITUTE
DAHARKI CAMPUS

#1 GHOTKI'S IT TRAININGS INSTITUTE

AI *with* PYTHON COURSE

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ABOUT US

KineTEX Institute DAHARKI CAMPUS is dedicated to fostering excellence through specialized education and professional development. We bridge the gap between academic learning and industry demands by providing students with the tools they need to thrive in a competitive global landscape.

Our MISSION

To provide quality education and practical training in a supportive environment, where students can learn modern skills, explore creativity, and prepare for a successful future.

Our VISION

To become a leading institute that empowers individuals with knowledge, skills, and confidence to excel in education, technology, and life.

AFFILIATED WITH

BBSHRRDB — Human Resource Development Strengthening the Nation

Trade Testing Board Sindh

STEVTA — Sindh Technical Education & Vocational Training Authority — Employment Through Skill

WHY CHOOSE US

1.5k+
Current Enrollments

5k+
Certificates

20+
Qualified Staff

WEB DESIGNING COURSE

Duration:
6 Months (24 Weeks)

Mode:
Theory + Practical + Projects

Outcomes: AI Developer, Python Developer, Data Analyst, ML Engineer (Junior Level)

Module System Course Outline

Month 1: Python Programming Foundations

Module 1: Introduction to Programming & Python (Week 1–2)
• What is Programming & AI
• Python Installation & Environment Setup
• Python Syntax & Variables
• Data Types (int, float, string, list, tuple, dict)
• Input/Output
• Operators
• Conditional Statements
• Loops

Practical:
• Write basic Python programs
• Mini logic exercises

Module 2: Functions, OOP & File Handling (Week 3–4)
• Functions & Arguments
• Lambda Functions
• Modules & Packages
• Object-Oriented Programming (OOP)
• Classes & Objects
• Inheritance & Polymorphism
• File Handling (Read/Write)
• Error Handling

Practical:
• OOP mini project
• File-based program

Month 2: Data Handling & Visualization

Module 3:
NumPy & Pandas (Data Analysis)
(Week 5–6)

- NumPy Arrays
- Mathematical Operations
- Indexing & Slicing
- Pandas Series & DataFrame
- Data Cleaning
- Handling Missing Values
- Data Filtering & Sorting
- Importing CSV/Excel

Practical:
- Data cleaning project
- Dataset analysis

Module 4:
Data Visualization
(Week 7–8)

- Matplotlib
- Seaborn
- Line, Bar, Pie & Histogram Charts
- Data Storytelling
- Dashboard Basics

Practical:
- Visualize real dataset
- Create charts & reports

Month 3: Machine Learning Fundamentals

Module 5:
Introduction to Machine Learning
(Week 9–10)

- What is Machine Learning
- Supervised vs Unsupervised Learning
- ML Workflow
- Train/Test Split
- Model Evaluation
- Overfitting & Underfitting

Practical:
- First ML model
- Accuracy evaluation

Module 6:
Supervised Machine Learning
(Week 11–12)

- Linear Regression
- Logistic Regression
- Decision Trees
- Random Forest
- KNN
- Model Tuning

Practical:
- Predictive model project

Month 4: Advanced Machine Learning & NLP

Module 7:
Unsupervised Learning
(Week 13–14)

- Clustering (K-Means)
- Hierarchical Clustering
- Dimensionality Reduction (PCA)
- Anomaly Detection

Practical:
- Customer segmentation project

Module 8:
Natural Language Processing (NLP)
(Week 15–16)

- Text Cleaning
- Tokenization
- Stemming & Lemmatization
- Bag of Words, TF-IDF
- Sentiment Analysis
- Chatbot Basics

Practical:
- Sentiment analysis project
- Simple chatbo

Month 5: Deep Learning & AI Applications

Module 9:
Deep Learning with TensorFlow/Keras
(Week 17–18)

- Neural Networks
- Activation Functions
- Backpropagation
- ANN Models
- Model Training & Evaluation

Practical:
- Neural network project

Module 10:
Computer Vision
(Week 19–20)

- OpenCV Basics
- Image Processing
- Face Detection
- Object Detection
- Image Classification

Practical:
- Face recognition project
- Image classifier

Month 6: Deployment, AI Tools & Final Project

Module 11:
Model Deployment & MLOps Basics
(Week 21–22)

- Flask / FastAPI
- Deploy ML Model
- API Creation
- Streamlit Apps
- Model Saving & Loading
- Cloud Deployment Basics

Practical:
- Deploy ML model as web app

Module 12:
Final Project, Portfolio & Career
(Week 23–24)

- Final AI Project (Any domain)
- Documentation & Presentation
- GitHub Portfolio
- Resume for AI Jobs
- Freelancing & Remote Work
- Interview Preparation

Examples of Final Projects:
- AI Chatbot
- House Price Prediction
- Fake News Detection
- Face Recognition System

Course Outcome
- Strong Python foundation
- Machine Learning + Deep Learning skills
- Real AI projects
- Portfolio & GitHub
- Job & freelancing readiness

GET ENROLLED NOW!

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