QUEST
INNOVATIVE SOLUTIONS

LET JOBS CHASE YOU!

Advanced Diploma In Data Science with Machine Learning, Deep Learning & NLP

Nsim
National skill India mission
A Division of Bharat Sevak Samaj
National Development Agency, promoted by Government of India

- **20 Years** of Excellence
- **ISO 9001:2015 & 10002:2014** Certified Company
- Placement tie up with **400+IT/ITES Companies**

QIS Academy
Guidance • Training • Careers

Trivandrum	Cochin	Calicut	Kannur
99612 53317	79944 49478	85890 23855	96333 02188
79948 66601	95677 63448	79944 42075	79943 66444

🌐 www.qisacademy.com ✉ mail@qis.co.in

Advanced Diploma In Data Science with Machine Learning Deep Learning & NLP

PYTHON PROGRAMMING FOR DATA SCIENCE

Python variables
Collections of variables
Looping Statements
Conditional Statements
Functions
OOPs Concepts
File handling
Debugging
Data Structures and Algorithm
OS module

ANALYZING DATA WITH PYTHON

Relational Databases & NoSQL
Big-Data Databases
Statistics & Probability
Importing Datasets
Cleaning and Preparing the Data
Summarizing the Data Frame

VISUALIZING DATA WITH PYTHON

Matplotlib
Line Plots
Basic Visualization Tools
Area Plots, Histograms, Bar Charts
Specialized Visualization Tools
Pie Charts, Box, Scatter & Bubble Plots

TABLEAU

Bringing in Data
Connecting to Data
Visualizing Data
Analyzing Data
Creating Dashboards
Publishing and Sharing
Advanced Visual Analytics

MACHINE LEARNING

Supervised Learning
Classification and Regression
Linear Models
Naive Bayes Classifiers
Decision Trees
Unsupervised Learning
Principal Component Analysis (PCA)
K-Means Clustering
Recommender Systems
User-Based & Item-Based Collaborative Filtering
Binning, Discretization, Linear Models & Trees
Model Evaluation and Improvement
Cross-Validation in scikit-learn
Algorithm Chains and Pipelines
Prototype to Production

DEEP LEARNING

Introduction to Neural Networks
Convolutional Neural Networks
Recurrent Neural Networks
Tensor Flow2

NLP NATURAL LANGUAGE PROCESSING

Types of Data Represented as Strings
Representing Text Data as a Bag of Words
Stopwords
Rescaling the Data with tf–idf
Investigating Model Coefficients
Advanced Tokenization, Stemming
Lemmatization
Machine Learning and Deep Learning
Natural Language Applications

BIG DATA

Hadoop Overview
Spark Overview

CAPSTONE PROJECT

QIS Academy
Guidance • Training • Careers

Trivandrum	Cochin	Calicut	Kannur
99612 53317	79944 49478	85890 23855	96333 02188
79948 66601	95677 63448	79944 42075	79943 66444

www.qisacademy.com ✉ mail@qis.co.in