

CELEBRATING
14 YEARS

QualityThought[®]

Transforming Dreams! Redefining Future!

A gateway to your
Bright Future in the
IT Industry

Prompt Engineering

Python Programming

- ⇒ Basic Python
- ⇒ Data handling in Python Using Pandas

Assignment 1: Data handling practice on Various datasets
Assignment 2: Data visualizations using Matplotlib, Seaborn

Statistics

- ⇒ Basic Statistics
- ⇒ Central limit theorem
- ⇒ Hypothesis testing

Assignment 3: Problems on Hypothesis Testing

Feature Engineering

- ⇒ Outlier processing
- ⇒ Data encoding
- ⇒ Data scaling
- ⇒ Imputation methodologies
- ⇒ Feature Selection

Assignment 4: Data wrangling of dataset of 2 dataset problems

Machine learning

- ⇒ Theory and Practice of algorithms
- ⇒ Linear Regression
- ⇒ Logistic Regression
- ⇒ Decision Trees
- ⇒ Random Forest
- ⇒ GBM, GBC
- ⇒ SVM, SVC
- ⇒ Boosting and Bagging
- ⇒ Bias, Variance Analysis

Project 1 : Regression type Project
Project 2: Classification Project

Deep learning

- ⇒ Basic Neural Network
- ⇒ Convolution Neural Network(CNN)
- ⇒ Recurrent Neural Network(RNN)
- ⇒ Long short Term Memory(LSTM)

Project 3: Image classification Project

Natural Language Processing

- ⇒ Tokenization
- ⇒ Stemming
- ⇒ Lemmatization
- ⇒ TF-IDF

Project 4: Sentiment Analysis

Generative AI (LLM)

- ⇒ Transformers
- ⇒ BERT
- ⇒ GPT

Project 5: Building applications using OpenAI API





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