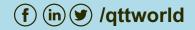


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Python Programming

➡ 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
- ⇒ Bais, 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

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

Project 4: Sentiment Analysis

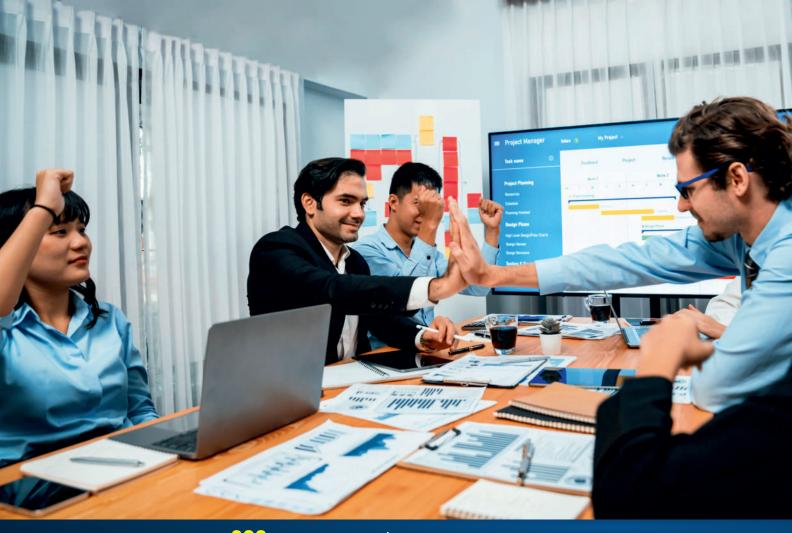
Generative AI (LLM)

- ➡ Transformers
- ➡ BERT
- ⇔ GPT

Project 5: Building applications using OpenAI API



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