RUTVIK KUMAR

DATA SCIENTIST

CONTACT













Ahmedabad, Gujarat, India

SKILLS

Python Machine learning
Deep learning Computer Vision
Artificial Intelligence NLP
Problem Solving DSA

LIBRARIES

Sklearn, NumPy, Pandas Matplotlib, SciPy, Keras TensorFlow, Streamlit, PyTorch NLTK, Hugging Face, OpenCV

DATABASE

MySQL ORACLE BigQuery EXCEL

MACHINE LEARNING

Linear Regression, Logistic Regression, Decision Tree, Random Forest, Gradient Boost, XGBoost, AdaBoost, SVM, KNN, K-means

DEEP LEARNING

ANN, CNN, RNN, LSTM, BI-directional LSTM, Encoder-Decoder, Attention Model, Transformer, BERT, VGG16, ResNet50, Incepction_V3, YOLO

CERTIFICATIONS

GenAl with LLM (Deeplearning.Al)
Advanced SQL (HackerRank)
Python (HackerRank)
Problem Solving (HackerRank)

EDUCATION

B. TECH (DUAL)

IIT BHUBANESWAR, MAY 2024 CGPA- 8.01 **CBSE(XII)**APS, MAY 2019
85%

CBSE(X) K.V, APRIL 2017 CGPA-9.2

EXPERIENCE

HACKATHON

TREDENCE

TREDENCE

MAY 2023

- Secured 2nd position, conducted by TREDENCE at Pan India level.
- Solved Advanced NLP problem of classification.
- Performed EDA on text data using **WordCloud** and **HeatMap**.
- Used Bi-directional LSTM RNN and LLM like Distilbert-base and then evaluated using confusion matrix and accuracy V/S epoch curve.

DATA SCIENCE INTERN



GOJEK, BANGALORE

MAY 2022 – AUG 2022

- Worked with the GOFOOD team on the Tensoba project to predict food preparation time (FPT) for accurate prediction of ETA.
- Extract real-time and historical data using BigQuery and perform EDA, data cleaning, Data Transformation and Feature Engineering.
- Applying the NLP method like TF-IDF and Word2vec to convert dish names and using PCA, T-SNE and RSS for dimensionality reduction.
- Algorithms like **XGBoost** regression and classification (after Bucketing the FPT) are used to predict the FPT and reduce the **MAPE** by 5%.

DATA SCIENCE/ANALYST INTERN



HENRY HARVIN ANALYTICS

JAN 2022 - FEB 2022

- Identifying flower images into different classes.
- I used MobileNet_v2, AlexNet, VGG16, VGG19 and a custom sequential CNN model using Padding, Pooling and dropout layer for prediction.
- Evaluate using **Accuracy Score** and **Precision**, deploy in **STREAMLIT**.

PROJECTS

BIGBERT WEB APP

- **LLM-based** web application on question answering where we upload the image and ask questions related to text in the image.
- Used genism models like Word2Vec, Fastext and GoogleNews-vectornegative300 for word embedding and pre-processing of text on SQUAD dataset for ML models like Gradient Boosting and SVR.
- Used the **BERT** model like **distilbert-base-cased-distilled-squad** and **deepset/roberta-base-squad2** and compared it with the ML model.
- Deployed the app on streamlit.io and made it public.

CHEST CANCER DETECTION &

- Classifying CT-Scan image into 3 types of cancer or NO-cancer.
- Performed **Data Augmentation**, **Rescaling**, **and** analyses of dataset **statistics** and **removed class imbalances** by assigning weights.
- Used Inception_V3, ResNet 50, VGG16 and MobileNet model for prediction and Accuracy, F1-Score and Precision for evaluation.