MD ZOAIB ALAM
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Education

Techno India University, Kolkata 2021-2024
- Bachelor of Computer Applications | CGPA : 8.61

Saifee Golden Jubilee English Public School 2020-2021
- ISC (Class XII)

Saifee Golden Jubilee English Public School 2018-2019
- ICSE (Class X)

Experience

Data Science Internship April – June 2024
At **Altair** | Remote
Worked on an End to End Advanced RAG App using AWS Bedrock and Langchain

Skills

Python |C|C++|Java |HTML |CSS | Javascript | NodeJs |SQL| Git |Git Bash | RestAPI | FastAPI |Flask |Machine Learning |Scikit Learn | PyTorch | TensorFlow |Deep Learning |Data Science |Data Analytics | R Programming |Power BI | MongoDB| ElasticSearch| Natural Language Processing (NLP)

Projects

MRI Tumor Classifier

The MRI Tumor Classifier is an advanced tool designed to detect and classify brain tumors using MRI scans. Utilizing state-of-the-art machine learning algorithms and extensive medical imaging datasets, this classifier accurately identifies MRI scans as normal, glioma, meningioma, or pituitary tumor, aiding healthcare professionals in making informed decisions.

- Technologies used include TensorFlow and Keras for building and evaluating models, and pre-trained models like VGG16 and ResNet50 for transfer learning.
- Data preparation involved collecting extensive datasets, applying augmentation techniques, and preprocessing images.
- The classifier employs CNNs for robust model architecture and uses performance metrics like accuracy and F1-score for evaluation.
- The user interface is created with HTML/CSS/JavaScript, and Plotly is used for visualizing model performance metrics.

VitalPulse Analytics

Built VitalPulse Analytics, a web platform that leverages Machine Learning for health and financial insights.

- Spearheaded the development of HeartGuard Predictor, a heart disease risk assessment tool with an accuracy of 93.8%. Utilized a Random Forest Classifier to analyze user data and generate personalized risk scores.
- Engineered BodyVitality Gauge, a body fat percentage prediction system achieving an impressive 94.7% accuracy. Implemented a Random Forest Regressor to extract meaningful insights from user information.
- Developed InsuranceGuard Estimator, a groundbreaking application for personalized insurance premium predictions (95.1% accuracy). Employed XGBoost Regressor to build a robust model, empowering users to make informed financial decisions.

Portfolio Website

- Developed a responsive portfolio website for optimal user experience on various devices.
- Implemented an intuitive interface for easy navigation and efficient information retrieval.
- Infused creativity into the design, showcasing skills with visually appealing graphics and layouts.

Academic Achievements

- Ranked 2nd in Blind Coding at iLEAD Managedia 2022.
- Completed 100 Days of Code: The Complete Python Pro Bootcamp for 2023 Course offered on Udemy by Dr.Angela Yu.

Hobbies

- Coding
- Watching and playing football.