Amogh Ramagiri

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Education

M.Sc   **George Washington University**, Data Science   Aug. 2024
- **Coursework:** Introduction to Data Science, Introduction to Data Mining and Data Warehousing.

B.Tech   **Presidency University**, Computer Science and Engineering (Spl. in AI and ML)   Sept. 2020 - June 2024
- GPA: 8.29/10.0
- **Coursework:** Software Foundations, Computer Architecture, Algorithms, DBMS, Intro to Artificial Intelligence, Machine Learning, Deep Learning, Data Analytics.

Experience

National Changhua University of Education, Research Intern   Changhua, Taiwan
    Sept. 2023 - Mar. 2024
    6 months
- Developed a multi-modal feature fusion system integrating facial and voice recognition for a two-layered biometric authentication security system using Raspberry Pi 400.
- Designed a web application using Flask and Python to retrieve data from NAS servers and perform authentication on a Raspberry Pi system. This solution saved storage space and enabled device-independent authentication regardless of device configuration.
- Conducted surveys, collected data from students, and processed it for subsequent model training.

Wodo, Web Developer, Intern   Bangalore, India
    June. 2022 - Aug. 2022
    3 months
- Led multiple front-end development projects, ensuring seamless and visually appealing UX.
- Leveraged Python with flask to develop robust backend solutions for website functionality.
- Developed ML model, obtained 96% accuracy for sales prediction and employed PowerBI to visualize sales trends and pattern recognition, resulting in a 15% increase in revenue.

EDGENeural.ai, AI Engineer, Intern   Bangalore, India
    Oct. 2021 to Dec 2021
    3 months
- Utilised Natural Language Processing Algorithms for News Classification, employed word embeddings, CNN and RNN models.
- Achieved precise Object Recognition using CNN with OpenCV and TensorFlow.
- Conducted extensive data analysis using Python, performed data cleaning, visualization, and modeling, Leveraged Pandas, MatplotLib, and seaborn.

Skills

Languages	Python, R, SQL, C, JavaScript	**Libraries**	Numpy, Pandas, Matplotlib, Seaborn, Yolo, OpenCV, firebase-admin
Framework	Flask, TensorFlow, Scikit-Learn	**Tools**	MS Excel, Git, FireBase, MongoDB, Power Bi

Publications

Image Classification for Optimised Prediction of Leukemia Cancer Cells using Machine Learning and Deep Learning Techniques   April 2023
    IEEE ↗

Projects

Credit Card Fraud Detection Using ML Pipeline   May 2023
- Used Kaggle Dataset from Anonymised credit card transactions consisted of 284807 Columns and 31 Rows.
- Performed EDA to compare the difference of genuine and fraud transactions (Seaborn and Matplotlib) and removed outliers using upper and lower fence.
- Implemented ML Pipeline using 2-transformers (Spline and PCA) and performed Hyperparameter Tuning to increase model accuracy (GridSearchCV) for XGBoost Classifier and obtained 99.958% accuracy for the trained model.