Likithpranai Mukkamala

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LANGUAGES/LIBRARY/FRAMEWORKS/TOOLS

- **Languages:** HTML, CSS, JavaScript, Python, SQL.
- **Library/Frameworks:** MERN, React.js, MongoDB, Express.js, Node.js, Bootstrap, Flask, Pandas, NumPy, Matplotlib, Scikit-learn.
- **Tools:** Git, GitHub, Figma, MongoDB Atlas, Jupyter Notebook, VS Code
- **Concepts:** Functional Programming, Data Visualization, Data Analysis, Web Scraping, Machine Learning, EDA

PERSONAL PROJECTS

E-Commerce Website: (HTML, CSS, JavaScript, React.js, MongoDB, ...) [06/2024 – 07/2024]

- Designed and developed a responsive, react based web application from scratch using the MERN technology stack.
- Implemented back-end server-side components, including APIs and database models using Node.js and Express.js
- Implemented and developed a secure and robust admin dashboard that enabled adding, editing, and removing products in the e-commerce website catalog with data stored in the MongoDB Atlas database.

NBA Score Predictor: (Python, Web Scraping, Pandas, Scikit-learn) [07/2024 – 07/2024]

- Developed a machine learning model to predict the outcome of NBA games (win or loss) based on historical game data.
- Web scraped 9 years of historical NBA games data, including scores, individual player statistics, and overall game statistics. Cleaned and preprocessed the data, extracting relevant features to prepare it for machine learning.
- Implemented a Ridge Classification machine learning model to accurately predict the outcome (win or loss) of NBA games using the scikit-learn, and a classification metric to measure the fraction of correct predictions.

SpaceX Falcon 9 Landing Prediction: (Python, SQL, Data Analysis, Machine Learning) [07/2024 – 07/2024]

- Used the SpaceX API, and Web Scraped data to extract relevant information about the Falcon 9 launch.
- Conducted Data Cleaning and Exploratory Data Analysis using Pandas, Matplotlib, Folium, Seaborn, and SQL to identify relevant patterns between features and built a dashboard using Plotly and Dash to communicate my findings.
- Implemented Liner Regression, Logistic Regression, Decision Tree Classifier, and K-Nearest Neighbors algorithm using Scikit-Learn to predict Falcon 9 landing and used confusion metrics to determine the accuracy of each model.

Anime Image Classification: (Python, OpenCV, Flask, AWS Cloud) [07/2024 – 07/2024]

- Leveraged computer vision techniques with the OpenCV library to detect and extract facial regions from a dataset of anime character images, preparing the cropped faces for use in a machine learning.
- Developed a facial feature classification system using Support Vector Machines to categorize a dataset of anime character images.
- Developed a web app that allows users to upload images for automated anime character identification, deploying the solution on AWS using Flask, HTML/CSS, and JavaScript

COMPETITIONS

Google Gemini AI Hackathon (DyslexicAI): (View Pitch) [05/2024 – 05/2024]

- Prototyped a mobile application that converts normal texts to dyslexic texts with Gemini AI aiding dyslexic students with university assignments and pitched the prototype at Hong Kong Google Headquarters.

CERTIFICATIONS/ACHIEVEMENTS

Meta Front-End Developer Professional Certificate || Coursera [06/2024 – 07/2024]

Relevant Coursework: Introduction to Web, Version Control, HTML and CSS in depth, Programming with JavaScript, React Basics, Advanced React, Principles of UI/UX Design.

IBM Data Science Professional Certificate || Coursera [07/2024 – 07/2024]

Relevant Coursework: Python for Data Science, AI & Development, Data Analysis with Python, Data Visualization with Python, Machine Learning with Python, SQL for Data Science, Deploying AI Projects With Flask.

EDUCATION

The Hong Kong University of Science and Technology || Hong Kong [09/2023 – 09/2027]

Sophomore in BEng in Computer Engineering