Rafee Adnan

Portfolio: rafee.app GitHub: github.com/rafifi7 LinkedIn: linkedin.com/in/radnaan/ Email: rafeeadnan7@gmail.com

EDUCATION

• Purdue University | B.S. in Computer Science

May 2024

- o Concentration: Machine Intelligence
- Relevant Coursework: Analysis of Algorithms, Data Structures and Algorithms, Data Mining And Machine Learning, Relational Databases, Systems Programming, Competitive Programming

EXPERIENCE

Transamerica

• Software Engineering Intern

Remote

May - Aug 2023

- Utilized the OpenAI API to lead the development of a transformative Transamerica-GPT initiative, aiming to enhance employee productivity through an advanced chatbot equipped with conversational memory
- Developed versatile converters for HTML, PDF, and XLSX file formats, enabling efficient indexing of the S3 bucket document information by the chatbot
- Developed a RESTful API in Python utilizing AWS Lambda Orchestrator, which enabled communication between a webpage and backend services
- Integrated the API with S3 buckets and DynamoDB databases to facilitate seamless interactions with a chatbot interface

PROJECTS

• Task Manager

Systems Programming

Dec 2023

System Information GUI Application

- Developed a system monitoring application akin to Windows Task Manager or Linux System Monitor, utilizing the proc filesystem and Qt 5 for a graphical interface
- Implemented functionalities for viewing, controlling, and analyzing individual processes, including options for terminating, suspending, and exploring memory maps and open files

• Bayer Yield Prediction

Purdue Data Mine

Undergraduate Research

Aug - Dec 2022

- Analyzed over 2,900 genetic markers and 1,400 environmental factors to predict crop yield, using data from 1 million records split into two clusters
- Enhanced model performance by integrating environmental features, boosting the adjusted R-squared from 0.1 to 0.67, and validated the improvement through k-fold cross-validation
- o Developed, trained, and optimized various machine learning models, including Ridge, Lasso, and Random Forest

• Sprachen Karte

Independent Research Project

Language Map Website

Jun 2024

- Developed a dynamic global map visualization using JavaScript and the AmCharts 5 API, categorizing languages by status (institutional, stable, endangered, extinct)
- \circ Utilized Python and Beautiful Soup (BS4) to scrape and compile data on over 7,000 languages from Ethnologue's global language data into a JSON format

CERTIFICATIONS

• AWS Cloud Practitioner Certification CLF-C02

Jul 2024

• JPMorgan Chase & Co Certification

Jan 2022

Software Engineering Virtual Experience

- o Utilized stock price data feed to implement a way to display data visually for traders
- Using JPMorgan Chase frameworks, JavaScript, Python, and Typescript

SKILLS

- Programming Languages: Java, Python, C++, C, JavaScript, C, UNIX, SQL, ROS, R
- Tools and Skills: AWS, VSCode, IntelliJ, Qt 5, Pandas, TKinter, Pygame, TensorFlow, Keras, NumPy, OpenAI, OpenCV, Agile, Office 365, Chart.js, Node.js