Sayed Sohail Pasha Peerzade

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EDUCATION

Queen Mary University, London

MSc Computer Science - 2023

PES Institute of Technology, Bangalore

Bachelor of Engineering in Information Science and Technology - 2018

Skills

- Programming Languages: Python, Java, TypeScript, JavaScript, Haskell
- Web Technologies: Angular, React, NextJs
- Mobile Development: Swift 5, SwiftUI , CoreData, Combine, Quicklook
- Databases: SQL Server, MYSQL, MongoDb
- Version Control: GIT, SVN
- Machine Learning – Linear Regression, Logistic Regression, SVM, KNN, K-Means, Random Forest, PCA, Decision Trees, Gradient Boosting.

PROFESSIONAL EXPERIENCE

Outlier, San Francisco

Data Science Consultant, February 2024

- Enhanced the efficiency of AI systems, including generative language models, by refining 500+ outputs and rigorously training them with high-quality programming tasks.
- Achieved significant performance improvements by utilising advanced data science frameworks to rank and evaluate model performance through Reinforcement Learning from Human Feedback (RLHF) protocols.
- Leveraged machine learning algorithms to analyse and identify complex patterns and irregularities in data, enhancing decision-making processes and achieving more effective data analysis.
- Conducted extensive code reviews and rewrote low-quality model responses, ensuring the delivery of high-quality software solutions.
- Analysed and fine-tuned over 100 code segments in Python and SQL for next-generation AI applications, markedly increasing the precision and functionality of deployed models.

Insight Dev, Glasgow

LLMOps Intern, January 2024

- Spearheaded the UI development of a Legal AI platform using Next.js and Tailwind CSS, focusing on creating intuitive and responsive user interfaces that cater to both general users and legal professionals.

- Integrated Google and Facebook OAuth social logins, enhancing user accessibility and security. Ensured seamless authentication experiences for users while maintaining high security and data privacy standards.
- Leveraged Husky for executing git hooks to maintain high code quality. Implemented linting, code formatting, and type checking processes, ensuring robust and error-free code deployment.
- Developed and managed a single instance of the API layer using Axios, facilitating efficient data retrieval and manipulation for case creation, chat management, and legal firm interactions on the platform.
- Set up Jest for unit testing and Cypress for end-to-end automated testing, ensuring the reliability and functionality of the platform through comprehensive test coverage and continuous monitoring.
- Utilised Mock Service Worker (MSW) for rapid prototyping of the application's frontend, enabling efficient testing and iteration of UI components without dependency on backend services.
- Spearheaded the integration of advanced NLP models using OpenAI's GPT-4 and Cohere's reranking endpoint, significantly enhancing the platform's legal document summarization and case analysis capabilities.
- Developed and refined AI-driven chat functionalities within legal cases, employing LangChain and RAG for context-aware, legally accurate conversations, thus improving user engagement and satisfaction.
- Developed and optimised a sophisticated chunking strategy for processing large legal documents, enabling the AI to efficiently handle and analyse extensive legal texts without compromising on information integrity or response accuracy.
- Conducted rigorous evaluations of the RAG model's performance in legal contexts, employing a variety of metrics such as the RAG Triad of metrics, ROUGE, ARES, BLEU, and RAGAs.

Software AG, Bangalore

Associate Consultant, September 2018 – August 2022

- Led UX research, creating journey maps, competitive analyses, wireframes, and digital prototypes for mobile app development.
- Developed a mobile app in SwiftUI with MVVM architecture, incorporating custom animations, transitions, and reusable UI components.
- Implemented Single Sign On using Microsoft Authenticator Library and reactive form validations using the Combine framework.
- Led a UI rewrite for an E-Commerce/Procurement web app, transitioning from webMethods CAF to a Single Page Application based on Angular 7 and JBoss.
- Implemented SAML-based Single Sign On, created responsive and browser-compatible code, and optimised performance through server request minimization and CSS delivery optimization.
- Developed i18n localization for German and English users and built a search engine for the E-commerce application.
- Constructed Full-Text Search queries in SQL Server and implemented automated Continuous Integration and Deployment using Jenkins.
- Created an Agile Apps based solution for Complaints Management, integrating Single Sign On with OKTA and Agile Apps for the AIA - Australia Complaints Management System project.

Projects

- Clustering of Football Players Similar to 'Kylian Mbappé' using K-means and GMM Algorithms .
- Vector Space Semantics of character documents containing lines spoken by characters in the Eastenders script data .

- Fake News Detection using Support Vector Machine (SVM) Classifier .
- Vowel Formant Clustering using Mixture of Gaussians and EM Algorithm .
- Iris Classification using Logistic Regression and Neural Networks .
- Linear Regression and Concepts of Under/Overfitting and Regularization for Diabetes Dataset .
- Design and Implementation of a Multi-threaded Social Network Simulation in Haskell .
- Development of a Stack-based Haskell Web Data Harvesting and Storage Application .