ARHAAN SHAIKH

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Education

University of West London, London   Sep 2022 - Present
Bachelor of Science in Honors Computer Science
Predicted Grade: First Class

ACHIEVEMENTS

Holistic AI x UCL Hackathon   *Event Link*
- Competed in a hackathon focused on AI fairness and transparency, ranking among the top teams.
- Developed the Bias-Mitigating Machine Learning Model, a project designed to detect and mitigate racial biases in textual data.

Encode Nillion AI Hackathon   *Event Link*
- Secured 3rd place in a hackathon focused on decentralized AI and privacy-enhancing technologies.
- Developed MailGuard AI, integrating Nillion AI to encrypt user search history and enhance email spam detection.

Work history

Cogniwide UK   10/2024 - Current
Gen AI Developer
- Implemented RAG applications, reducing data retrieval latency by 40% and improving query relevance by 25%
- Developed multiagent chatbot solutions, cutting query resolution times by 35% and boosting engagement by 30%
- Collaborated to integrate AI-driven solutions, increasing operational efficiency by 20%

Jedi Coders Ltd – **London**   09/2023 - 09/2024
Software Developer
- Implemented REST APIs for authorization and authentication, enhancing security for 100+ users in the MuJoCo robotics project.
- Developed a responsive website, reducing page load time by 30% and increasing user engagement by 20%
- Assisted in building a virtual robotics platform by developing a VS Code–like text editor using PyQt.

Skills

- **Technologies/Frameworks:** React.JS, Bootstrap, NumPy, Panda, LangChain, TensorFlow, Pytorch
- **Programming:** Java, Python, JavaScript, HTML, CSS, SQL, NoSQL, TypeScript
- **Software:** VS Code, Git, GitHub, Eclipse, Android Studio
- **Coursework:** Data Structures and Algorithms, DBMS, OOPS, AI, ML

PROJECTS

MailGuard AI
- Developed an advanced spam detection system utilizing BERT-tiny for tokenization and trained an ML model for precise email classification.
- Integrated Nillion AI to encrypt user search history, enhancing data privacy and security. Developed an intuitive React-based interface enabling users to classify emails as "Spam" or "Ham" and securely access their encrypted search history.
- Attained **92%** accuracy during model training, significantly enhancing email filtering effectiveness.
- Developed key features such as real-time inference, an interactive UI, and secure management of past classifications.

Bias-Mitigating Machine Learning Model
- Developed a logistic TD-IDF model to detect and mitigate racial stereotypes in text, achieving an F1 score of **0.75**.
- Incorporated the model into a full-stack application with privacy-enhancing features.
- Implemented regex and encryption to block the processing of personal data, such as emails and passwords.
- Deployed the solution on AWS, ensuring scalability, reliability, and accessibility.

Planify AI Real Estate Pre-Planning Platform, AI-Powered
- Built a platform bridging developers, communities, and government bodies for streamlined urban pre-planning.
- Enabled community feedback (text \& images) for inclusive decision-making.
- Developed an interactive dashboard for data-driven urban planning decisions.
- Integrated AI sentiment analysis to extract concerns and trends.