

Ayaan A. Syed

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PROFESSIONAL SUMMARY

Results-driven technology consultant with expertise in software development, AI, and data science. Skilled in collaborating with stakeholders to develop customized solutions, leveraging programming expertise in Python, Java, and AWS services. Experienced in AI-driven applications, cloud computing, and full-stack development, with a strong ability to translate client needs into technical solutions. I speak and write in English and Urdu, and I am experienced in Hindi

WORK EXPERIENCE

USDA - Data Scientist

June 2024 - August 2024

Internship

Austin, TX

- My role comprised two main projects. I developed a data science solution using Google Earth Engine to monitor water quality in Fiji, applying various indices to detect pollution and analyze seasonal trends. The other involved photo-interpreting sample plots of land, writing R scripts to ensure the accuracy of the interpretations, and compiling my data for the 2021-2022 reporting period.

Klein Sports Performance, LLC - AI Research Lead

September 2024 - Current

Internship

Austin, TX

- Lead researcher for the AI component of a fitness app, responsible for developing machine learning algorithms to learn 100+ workouts, personalize workouts, and analyze user performance. Collaborated with data science/development teams to feed our ChatBot information across 20+ studies, optimizing feedback and enhancing user fitness outcomes through tailored insights.

PROJECTS

- MindSight** - AI-Powered EEG Analysis Platform
 - Built a React application integrating synthetic data generation and authentic PhysioNet medical datasets for neuroscience research. Implemented real-time EEG visualization with FFT spectral analysis for brain wave frequency detection and medical pattern recognition. Integrated DeepSeek-R1 AI model for clinical brain pattern analysis with medical significance assessment and therapeutic recommendations.
 - Skills used:** React, JavaScript, CSS3, Hugging Face AI API, Medical Data Processing, Signal Processing
- Esports Manager AI Assistant** - LLM-Powered Digital Assistant
 - Developed an LLM-powered digital assistant with a chat interface to make an esports team and answer queries about the players. The system processed 133 GB of data for a Retrieval-Augmented Generation workflow. Used AWS services (Bedrock, S3, Lambda, AOSS) to clean, store, and manage data, creating a vector store and index.
 - Skills used:** AWS Services, Python, LangChain, Anthropic's Claude v2, Amazon Titan, Streamlit
- SentinelAI** - AI-Powered Network Intrusion Detection System
 - Developed a cutting-edge network intrusion detection system leveraging ensemble machine learning approaches to identify malicious network activities in real-time. Implemented explainable AI features to provide security analysts with actionable insights into detection decisions.
 - Skills used:** Python, Pandas, NumPy, Scikit-learn, Streamlit, Matplotlib, Altair

EDUCATION

St. Edwards University

August 2022 - Current

BA, Computer Information Science

Austin, TX

- Relevant Coursework: Concepts I & II, Algorithmic Problem Solving, Computation-Based Programming, Web Development, Computer Architecture, Data Structures, Intro to AI, and Database Theory, Software Engineering

COMMUNITY INVOLVEMENT & INTEREST

Animal Caretaker - Volunteer

December 2022 - Current

- Provide care for animals by ensuring their well-being through feeding, grooming, and maintaining clean and safe living environments. Assisted with socialization and enrichment activities to support their physical and emotional health.