ANANYA JAJOO

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE — Irvine, CA

Bachelor of Science, Major in Computer Science (Specialization in Intelligent Systems) — Expected June 2025

Cumulative GPA: 3.9/4.0; Dean's List All Quarters

Relevant Coursework: Data Structures; Software Engineering; Operating Systems; Algorithms; Artificial Intelligence, Databases

WORK EXPERIENCE

KPMG INDIA (one of the big four multinational professional services network) — Kolkata, India

Data Science Intern — Jul 2023 – Sep 2023

- Developed and implemented an NLP-driven chatbot in Python, employing SQL query optimization techniques to enhance data retrieval from extensive databases.
- Managed the deployment of the chatbot on KPMG servers, ensuring seamless integration with existing systems and implementation of robust security measures.
- Designed and deployed a user-friendly website interface for the chatbot, optimizing user experience and accessibility to streamline client interactions with the system.
- Collaborated with cross-functional teams to understand and address diverse business requirements, facilitating the alignment of the chatbot's features with organizational goals.

UNIVERSITY PROJECTS

INTEGRATED SYSTEM - DESIGN PROJECT (C) — Sept 2023

- Designed and implemented Unix-based operating system in 2-person team using C integrating a user-friendly Shell program.
- Developed a Virtual Memory Simulator in C, incorporating user-selectable page replacement algorithms to optimize memory management and simulate efficient page movements between disk and main memory for read/write operations.

ARTIFICIAL INTELLIGENCE FOR CHECKERS (Python) — Sept 2023

- Developed an intelligent Checkers AI agent utilizing the Minimax algorithm with alpha-beta pruning, strategically solving Checkers games and optimizing decision-making by efficiently pruning unnecessary branches in the game tree.
- Incorporated custom heuristics to enhance decision-making, enabling the AI to evaluate and select optimal moves, culminating in the AI's performance to outperform 95% of other AIs.

SEARCH ENGINE DEVELOPMENT (Python) — June 2023

- Demonstrated expertise in web crawling and data extraction from valid URLs, leading the end-to-end development of a robust search engine. Leveraged Python for backend logic, Flask for seamless frontend integration, and Beautiful Soup for effective data extraction.
- Orchestrated the integration of advanced search ranking techniques, including cosine similarity and tf-idf, ensuring exceptional query responses in under 200ms.
- Integrated OpenAI API for automatic summary generation, enhancing user satisfaction and search relevance.

LEADERSHIP EXPERIENCE

DONALD BREN SCHOOL OF INFORMATION & SCIENCES — Irvine, CA

Undergraduate Learning Mentor — Mar 2023 – Present

- Facilitate academic success for 25+ students by providing personalized one-on-one tutoring sessions, assessing their learning needs, and developing tailored lesson plans.
- Collaborate with faculty and staff to align tutoring sessions with the curriculum, stay updated on course content and requirements, support students in meeting course objectives and hosting workshops on important topics.

INTERNATIONAL PEER GROUP, STUDENT SUCCESS INITIATIVES — Irvine, CA

Peer Coordinator (2023), Peer Mentor (2022) — Sep 2021 – Present

- Support first year mentees to assimilate into college through social and academic events, weekly check-ins, and one-to-one meetings, conduct weekly staff meetings to organize campus resources for international students, plan 10+ social and academic events in a quarter.

ADDITIONAL

Programming Languages: Advanced in SQL, Python, ; Proficient in C,C++, Java, Web Development (HTML5, CSS3, JavaScript) and MIPS

Technical Skills: Frameworks/Libraries(React, Angular, Node.js), Version Control (Git), Cloud Platforms (AWS)

ML Concepts: Supervised & Unsupervised Learning, Neural Networks, Computer Vision, Model Validation, Data Preprocessing, Reinforcement Learning