Sanskar Mishra

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EDUCATION

University of California, Irvine, Irvine, California   Enrolled: Sep 2023 — Expected: Jun 2027
B.S. Computer Science, Minor in Statistics, Specialization in Intelligent Systems (AI)   GPA: 3.61
Relevant Coursework: Python, C++, AI, ML/Data Mining, Data Structures, Computer Architecture

EXPERIENCE

USAA   Plano, Texas
Software Engineering Intern   May – Aug 2025

- Modernized deposit-hold processing by engineering cloud-native microservices serving 30,000+ employees across the bank enterprise.
  - Built an end-to-end stack using React.js and layered Spring Boot APIs that power the new workflow.
- Developed privacy-safe LLM analytics on 500,000+ call transcripts to surface representative performance metrics and classify member sentiment with 94% accuracy.
  - Authored high-performance SQL transforms to cleanse and stage data for Snowflake Cortex inference.

SafetyStratus   Dallas, Texas
Software Engineering Intern   Jun - Sep 2024

- Developed an end-to-end AI project using Retrieval-Augmented Generation (RAG) architecture to automate the processing of request for proposal (RFP) documents, generating complete solutions and saving an estimated 20+ hours of manual work per week.
  - Collaborated with cross-functional teams to understand business needs and create tailored architecture, improving the accuracy and response time of RFPs by 35%.
  - Built the backend using FastAPI, ChromaDB, and OpenAI API to support a React.js frontend, with the system hosted on AWS Elastic Beanstalk.
- Created a natural language to SQL translator that allowed customers to interact with the company's database using plain language.
  - Engineered using PostgreSQL and an AI-powered LangChain framework.
- Developed a script to automate the parsing of Safety Data Sheets (SDS) for standardized database input, eliminating manual data entry and reducing processing time by 50%.
  - Extracted key data points from complex documents via the OpenAI API, improving data accuracy by 20%.

UCI ICS Student Council   Irvine, California
AnteaterAPI Project Lead   Jan 2024 - Present

- Leading the development and maintenance of an open-source API providing university data to 40K+ users, managing a team of 8 developers.
- Managing deployment and scaling on Cloudflare Workers, handling 250K+ daily requests with a Postgres database on AWS RDS.
- Driving feature development, bug fixes, and community contributions to ensure API reliability and performance.

PROJECTS

Apprazer 🔗 "Best Use of AI in Real Estate" at IrvineHacks — *Python, Scikit-learn, Pandas, React*   Jan 2025

- Developed and trained a machine learning pipeline using Random Forest and SVM models on over 1 million data points from the HMDA dataset, improving loan approval prediction accuracy to 85%.
- Implemented data pre-processing and feature selection techniques to clean and optimize large-scale mortgage data sets, significantly improving model performance and regulatory transparency.

AI-powered Gmail Job Application Tracker (JobCAT) 🔗 — *React, Node.js, Firebase, Gmail AP*   Present

- Automated Gmail scraping and AI-driven classification of job-related emails, analyzing 50+ days of history with sentiment and urgency tagging.
- Developed a real-time dashboard with merge/delete controls and interactive status updates, improving job search organization and tracking efficiency.

SKILLS

Programming Languages: Java, Python, C++, Swift, SQL, JavaScript, TypeScript, Springboot
Frameworks/Tools: React.js, Docker, NumPy, Scikit-learn, PostgreSQL, Pandas, AWS, Cloudflare Workers, Snowflake