

SHERVAN SHAHPARNIA

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EDUCATION

San Jose State University Master of Science in Artificial Intelligence, GPA: 4.00/4.00	San Jose, CA Expected Graduation: Spring 2027
San Jose State University Bachelor of Science in Data Science, GPA: 3.63/4.00 (Dean's Scholar)	San Jose, CA Graduated: Spring 2025

EXPERIENCE

Funding & External Outreach AI & Machine Learning Club, SJSU	Feb. 2026 – Present San Jose, CA
<ul style="list-style-type: none">Manage internal funding and external outreach to companies; secure sponsorship and support for club events and initiatives.Support creation and execution of club events (workshops, talks) by coordinating with industry partners and event logistics.	
Engineering Project Lead AI & Machine Learning Club, SJSU	Sept. 2025 – Present San Jose, CA
<ul style="list-style-type: none">Led technical and operational execution for applied ML and CV projects, from architecture to delivery.Designed and improved ML pipelines using FastAPI, Python, and rule-based components.Supported team members with ML engineering practices, documentation, and workflow organization.	
Business Consultant Shadi Gala	Jun. 2025 – Present San Jose, CA
<ul style="list-style-type: none">Created Python scripts and SQL pipelines to segment 500+ transactions, engineer features, and improve forecasting accuracy for demand and inventory.Developed interactive dashboards integrating SQL, Google Analytics, and real-time KPIs; reduced reporting time 40% and drove 90% increase in ticket sales via data-driven optimization.	
Business Analytics Intern Shadi Gala	Feb. 2025 – Jun. 2025 San Jose, CA
<ul style="list-style-type: none">Designed SQL queries and Python/Pandas workflows to segment 500+ user transactions, identify purchasing trends, and improve forecasting accuracy.Supported SEO and analytics; developed interactive dashboards joining SQL with Google Analytics data, reducing manual reporting time and enabling real-time KPI tracking.	

PROJECTS

Industrial Multimodal RAG with Cross-Encoder Reranking FastAPI, ChromaDB, MiniLM, Gemini	
<ul style="list-style-type: none">End-to-end multimodal RAG for industrial manuals: image-to-text summarization and text chunking unified in a single embedding space (ChromaDB, MiniLM).Added cross-encoder reranking to improve retrieval quality and reduce hallucination; deployed FastAPI backend with Gemini for generation.	
Predictive Analytics for Safer Roads PyTorch, Plotly Dash, BigQuery, GCP	
<ul style="list-style-type: none">Architected traffic accident severity prediction pipeline using PyTorch on 6.5M+ records in BigQuery (GCP); engineered 20+ weather and road features with scalable preprocessing.Deployed Plotly Dash dashboard with 10+ interactive visualizations; model achieved 85%+ accuracy on severity classification and reduced manual analysis time by 50% via automated reporting.	

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C++, R

ML & CV: PyTorch, TensorFlow, Scikit-learn, MediaPipe, OpenCV, MiniLM

AI & LLMs: LangChain, Hugging Face, OpenAI API, ChromaDB; RAG, embeddings, fine-tuning

Frameworks: FastAPI, Next.js, React, Node.js, Plotly Dash

Cloud & Data: GCP, AWS, Vercel; BigQuery, PostgreSQL, MySQL

Tools: Git, Docker, VS Code, Ubuntu