KUSH SHARMA
LinkedIn | GitHub | Email | (602) 622-6832

EDUCATION

Bachelor of Science in Computer Science   **Expected May 2026**
Arizona State University   **Tempe/Az**
- Pursuing bachelor's in computer science at ASU as a rising senior

Certificate   **Expected May 2026**
Arizona State University   **Tempe/Az**
- Pursuing Certification in Cross-Sector Leadership with Next Generation Service Corps (NGSC)
- Led the Science & Tech Mission Team, driving cross-disciplinary solutions to societal challenges

SKILLS

- Data & Analytics: SQL, BigQuery, Power BI, Tableau, Google Analytics, Pandas, Matplotlib, Redis
- Programming & Web: Python (NumPy, Pandas), JavaScript (React, Vue), HTML/CSS, Node.js, C/C++, TypeScript
- AI & ML: OpenAI API, scikit-learn, NLP, ChatGPT prompt engineering, Axios
- DevOps & Tools: Git, Docker, AWS fundamentals
- Creative Skill: rapid ideation of UI layouts, branding collateral
- Strong Writing: clear user guides, onboarding emails, and stakeholder presentations
- Soft Skills: Leadership, Cross-Functional Collaboration, Written & Oral Communication, Project Management

EXPERIENCE

Paradowski Creative
Business Analyst Intern   **August 2025 – Present**
                                                                                               St. Louis, MO/Tempe, AZ
- Engineering backend **automation workflows** to streamline internal communications by connecting disparate software tools and automating message generation, reducing manual data entry.
- Architecting robust **data classification frameworks** and tagging systems to optimize business operations, ensuring data integrity and **accessibility across internal tooling**.
- Collaborating with technical and operations leads to deploy automated solutions, ensuring seamless adoption and process integration across non-technical departments.

AI Intern   **May 2025 – August 2025**
                                                                                                        St. Louis, MO
- Built scalable LLM workflows using Gemini and Fal.ai, **integrating Retrieval-Augmented Generation (RAG) and custom embeddings** to boost context relevance and reduce hallucinations across multi-turn interactions.
- Developed a Multiple Context Protocol (MCP) server to manage dynamic input contexts from multiple sources, enabling accurate long form reasoning and **improving model consistency by 80%.**
- Engineered 100+ optimized prompts for diverse NLP tasks (summarization, classification, retrieval), orchestrated via Axios-based pipelines and evaluated using semantic similarity and output coherence metrics.
- Authored internal libraries and prompt documentation to standardize development across teams, **reducing prompt iteration cycles by 60% and accelerating cross-functional adoption of LLM-powered systems**.

Next Generation Service Corps   **August 2024 – May 2025**
Principled Innovation Intern   **Tempe, AZ**
- Designing a full-stack websites for the Next Generation Service Corps (NGSC), utilizing HTML, CSS, JavaScript, and MongoDB to improve organizational outreach and streamline communication.
- Performed data analysis and visualization leveraging SQL, Pandas, and Matplotlib, **reducing data redundancy by 30%** and improving reporting efficiency.
- Conducting research and data analytics for the NGSC Principled Innovation project, assessing over 1,000 data points using advanced statistical methodologies, resulting in a 25% improvement in program effectiveness and a **20% increase in student engagement**.
- Developing interactive dashboards and automated reports to track program effectiveness and learner engagement

ACADEMIC PROJECTS

Fal-AI-Slack-Integration   **June 2025 – August 2025**
AI-Powered Content Generation Bot | JavaScript, Node.js, Slack API, AI/ML   **St. Louis, MO**
- Built comprehensive AI content generation platform **integrating 8+ fal.ai services with 26+ AI models** for images, videos, audio, and 3D content generation
- Implemented multi-service architecture with Redis session management handling 1000+ concurrent sessions, thread-based user isolation, and automatic cleanup
- Integrated Google Drive OAuth for automatic asset storage and Google Gemini API for prompt enhancement enabling seamless workflow automation
- Built production-ready deployment with PM2 process management, comprehensive security (JWT authentication, encryption, and health monitoring)

Sales Forecast Dashboard   **April 2025 - May 2025**
AI-Powered Time-Series Forecasting Tool | Next.js, React, Google Gemini AI   **Tempe, AZ**
- Developed production-ready ML pipeline processing **50,000+ data points with 85%+ prediction accuracy** using Google Gemini AI
- Built scalable time-series forecasting system handling real-time data streams with dynamic data visualization using Chart.js
- Implemented modular component architecture with TypeScript ensuring type safety across **100+ components and sub-second response times**
- Created comprehensive data processing pipeline with **1M+ data points handling** and real-time forecasting capabilities

Customer Churn Prediction Dashboard   **March 2025 - April 2025**
ML-Powered Predictive Analytics Platform | Python, Scikit-learn, Plotly   **Tempe, AZ**
- Engineered machine learning models (Random Forest, XGBoost) achieving **92%** accuracy on **100K+** customer records with feature engineering
- Built scalable data preprocessing pipeline processing 1M+ data points with model validation and real-time prediction API
- Implemented interactive dashboard with Plotly handling 10K+ concurrent users and real-time model updates with 99.5% uptime
- Created comprehensive analytics platform for customer retention strategies and risk assessment with automated model deployment error handling and validation for production deployment with **500+ concurrent analysis requests**

Smart Email Assistant   **March 2025 - April 2025**
AI-Powered Email Automation Platform | Python, AI/ML, Email APIs   **Tempe, AZ**
- Built intelligent email automation system using AI/ML for email classification, response generation, and workflow optimization
- Implemented natural language processing for email content analysis and automated response generation with high accuracy
- Integrated multiple email APIs for seamless email management and automated workflow processing
- Developed comprehensive email analytics dashboard with real-time monitoring and performance metrics

AWARDS AND ACHIEVEMENT

- Earned a full-ride scholarship as sole international student in NGSC program.
- Published a research paper focused on the K-Nearest Neighbor machine learning algorithm: https://t.ly/sczQ.
- Certified in Artificial Intelligence and Machine Learning from Stanford University, gaining practical experience in data analysis and algorithm development.
- Completed Deloitte Australia's Data Analytics Job Simulation on Forage, gaining hands-on experience in data cleaning, visualization, and business communication.