

BASAVRAJ CHINAGUNDI

602-386-8557 • bchinagu@asu.edu • LinkedIn • GitHub • LeetCode

EDUCATION

Master of Science, Computer Science Arizona State University, Tempe, AZ	Aug 2025 - July 2027 GPA: 4.11/4
Bachelor of Engineering, Electronics and Communication Engineering Thapar Institute of Engineering and Technology, Patiala, India	Aug 2019 - July 2023

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript, Java, C++, Bash
AI/ML: PyTorch, LangChain, LangGraph, HuggingFace, OpenAI API, Gemini API
Frameworks: FastAPI, Flask, Streamlit, React, Spring Boot
Data/Cloud: Snowflake, Databricks, PostgreSQL, MySQL, GCP, Azure
Tools: Git, Docker, Postman

EXPERIENCE

AI Software Engineer: Deloitte USI	Oct 2023 – July 2025
• Built a RAG-based chatbot using Python, Streamlit, and GPT-4 over consolidated banking documents, implementing token-aware chunking and asynchronous API calls to efficiently process large document collections.	
• Developed an XML-to-SQL code generation pipeline leveraging GPT-4.1 to parse Informatica ETL mappings and automatically generate executable SQL scripts for large-scale legacy system migration .	
• Created an automated data quality rule generator using Great Expectations and Gemini 2.0 , streamlining rule syntax creation for data engineering pipelines .	
• Wrote scalable Python ETL pipelines for multi-cloud data extraction (GCP, Azure) and optimized loading into Snowflake and Databricks .	
• Integrated four Generative AI tools into a unified agentic workflow using LangGraph , enabling automatic task routing and orchestration across AI-driven processes.	

Software Development Engineer Intern: Samsung SDS	Mar 2023 – June 2023
• Programmed a full-stack inventory microservice(Java, Spring Boot, React) that automated tracking for 1,000+ SKUs , cutting errors by 90% and saving 10 hours of manual entry per week.	
• Leveraged inventory data from the automation tool to build a forecasting model (ARIMA, Prophet) , improving seasonal demand prediction accuracy by 30% .	

PROJECTS

STaR: Self-Taught Reasoner (GitHub) (<i>Python, PyTorch, Hugging Face, LLM Fine-Tuning</i>)	
• Implemented the STaR (Self-Taught Reasoner) framework from scratch, fine-tuning Llama 3.2-3B on GSM8k using SFT and iterative self-improvement ; achieved 73.8% zero-shot and 72% STaR accuracy.	
• Analyzed training data quality degradation across iterations, identifying weak validation and noisy synthetic data as causes of performance drop to 64.9% .	
Slapp-AI (GitHub) (<i>Python, LLaVA-Mistral-7B, Supermemory, Streamlit</i>)	
• Engineered a clothing recommendation app using LLaVA-v1.6-Mistral-7B to generate descriptions from images; indexed 5,800+ items in Supermemory for retrieval.	
• Created per-user graphs that update from swipe actions to personalize recommendations; 30+ GitHub stars, 400+ X bookmarks .	
ShadowSearch (GitHub) (<i>JavaScript, Cloudflare Workers, Llama 3.1</i>)	
• Coded a Chrome extension powered by Cloudflare Workers and Llama 3.1 for real-time contextual page analysis and semantic search .	
• Won hackathon solo against 600+ participants with a session-aware Q&A system maintaining per-tab conversation context.	