

Eshan Chawla

 eshan-chawla |  eshan-chawla |  www.eshan.dev |  eshan.chawla.off@gmail.com |  (925)202-3650

Education

San José State University
Master's of Science in Artificial Intelligence

San José, California
Aug 2025 - May 2027 [Exp.]

Vellore Institute of Technology
Bachelor of Technology in Computer Science

Chennai, India
July 2019 - June 2023

Experience

PocketPills – Gurugram, IN

2.5 Years

Machine Learning Engineer II

July 2024 – July 2025

- **Lowered the build size of docker images by 42% for the AI Service** and build time by 30% via omitting import of huge libraries to manage vector embeddings with AWS Bedrock Knowledge Bases instead of the ChromaDB.
- **Mentored the AI Team** and contributed to projects like **RAG and CAG-based SMS response, Call Summarization workflows with LLMs, and OCR-based digitization workflows** that led to a collective saving of **20 hours a week**.

Associate Data Analyst

July 2023 – June 2024


- **Decreased the working capital for the organization by \$300k (1.5 Days of revenue)** by achieving a just-in-time inventory with Machine Learning to implement time-series forecasting for drug usage in the Inventory Management System.
- Reduced inbound messages by implementing an **Inbound SMS classification system with clustering of BART embeddings** to automatically identify message categories to enable multiple product changes.

Data Analyst Intern

Jan 2023 – June 2023

- Authored key performance indicator (KPI) reports on Tableau for analyzing team efficiency and call wait times to **enable data-driven strategic decisions**.

Hackathons

Travel Planner and Booking Agent at Y-Combinator 

Github

- Won **second place** in the agentic payments hackathon where we developed an AI agent with Claude Agent SDK for travel management, and handle autonomous payments with stripe.
- Experimented with the X402 protocol for micro-payments by agents in stablecoins.
- Tech Stack Used : FastAPI, Python, Next.js, Vercel, Anthropic, Kiwi MCP, coinbase, Locus Wallet.

Projects

Portfolio Site [RAG]

Website

- Implemented a **production-grade RAG deployment** on a user-facing portfolio site with security configurations to avoid exploitation of this feature.
- Tools Used : Next.js, Vercel, Pinecone, Vertex AI.

Network Intrusion Detection with ML

Github

- Developed and tested classical ML approaches to evaluate PCAP data with Netflow V3 extracted features on classification algorithms for NIDS.
- Modularized the entire Feature Engineering pipeline and model training to evaluate results across 36 variations.

Research

Machine Unlearning in Diffusion Models

- Contributed to the official open source repository of Forget-Me-Not an popular paper in machine unlearning.
- Implemented ESD Machine Unlearning model on Stable Diffusion 1.5 and then distilled the knowledge to a student model in the U-Net to implement unlearning with minimal loss.

Technologies

Programming Languages: Python, SQL, JavaScript

Frameworks & Libraries: Django, Apache Spark, PyTorch, Selenium.

AI/ML Tools & Frameworks: Google ADK, LangChain, LangGraph, Ollama.

DevOps & Developer Tools: Git, Docker, Jenkins, Sentry, HuggingFace, n8n

Cloud & Platform Services: Github, AWS, GCP, Cloudflare, Vercel, Vertex AI.