

# Eshan Chawla

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## 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.