

PRAMOD KRISHNACHARI

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EDUCATION

George Washington University

Master of Science in Data Science

Aug 2024 - May 2026

Washington, DC

Presidency University

B.Tech, Computer Science (Artificial Intelligence & Machine Learning)

Aug 2020 - May 2024

Bengaluru, India

Certification: CodePath - Applications of AI Engineering (AI201), Summer 2026

TECHNICAL SKILLS

LLM & Agents: LangGraph, LangChain, LlamaIndex, multi-agent orchestration, tool use, function calling, RAG, prompt design, grounding and hallucination analysis, evaluation rubrics, human-in-the-loop, OpenAI / Anthropic / Gemini APIs, Vertex AI

Reliability & Observability: structured logging, stage-level tracing, p99 latency and provider benchmarking, release gating, failure-mode triage, pytest, GitHub Actions CI/CD, Docker, Git

ML & Retrieval: PyTorch, scikit-learn, Hugging Face Transformers, SBERT, BM25, FAISS, Qdrant, ChromaDB, BERTopic, knowledge distillation, ResNet-50, ViT

Data & Cloud: Python, SQL, R, PySpark, Databricks, Delta tables, BigQuery, PostgreSQL, Redis, GCP (Vertex AI, BigQuery, GCS), AWS (EC2, S3), FastAPI, Flask, WebSockets, Power BI, Tableau

PROFESSIONAL EXPERIENCE

SuperCX

AI Engineer

May 2026 - Present

Remote

- Built and operate a production real-time voice agent pipeline on **Vertex AI** chaining **Deepgram** speech-to-text, **Gemini** reasoning, and **Cartesia** text-to-speech, owning latency and quality trade-offs across the live loop.
- Instrumented the pipeline for **stage-level observability** across turn timings, channel, and provider responses, so a regression traces to a specific stage rather than the conversation.
- Designed **structured evaluation** plans covering intent handling, fallback behavior, **tool-call correctness**, and failure modes, converting spot checks into a repeatable **release gate**.
- Benchmarked competing **STT**, **LLM**, and **TTS** providers on accuracy and **end-to-end latency**, and integrated **Twilio** telephony for calls, WhatsApp, and Telegram from one backend.

The George Washington University School of Business

Student Technical Support Assistant II

Aug 2025 - May 2026

Washington, DC

- Supported technology-enabled classrooms through **proactive system monitoring** and troubleshooting, resolving audiovisual and network faults before they interrupted scheduled instruction.
- Escalated recurring incidents to campus IT with **reproducible detail**, analyzing ticket patterns across rooms and equipment to prioritize the fixes that removed the most downtime.

Suprajit Engineering Limited - Electronics Division

Data Science & Analytics Intern

Dec 2023 - Aug 2024

Bengaluru, India

- Reconstructed per-unit event histories across ERP, test, firmware, and rework systems in **SQL** and **PySpark** on **Databricks** over **Delta tables**, aligning join keys and timestamps so failures traced end to end.
- Separated true product failures from measurement-system artifacts using features from raw sensor and end-of-line **telemetry** curves, with **control charts** and **anomaly** flags surfacing drift inside spec.
- Built fixture health indicators from rolling deviations against golden-sample references, separating gradual drift from sudden failure.
- Delivered **Power BI** views of yield, retest, and rework by product, line, shift, fixture, and firmware, negotiating metric definitions with three teams so the numbers were accepted rather than disputed.

PROJECTS

DockWise AI | Maritime LLM Agent & RAG Pipeline | LangGraph, BigQuery, FastAPI, GCP

2025 - 2026

- Built a **LangGraph** multi-agent system with **tool-use orchestration** over 54.7M AIS vessel records in **BigQuery**, letting analysts query maritime traffic in natural language instead of hand-written **SQL**.
- Implemented **grounding checks** and fallback handling validating vessel, port, and timestamp references against source tables before an answer returns, reducing **hallucinated** entities.
- Wrote evaluation prompts and a **scoring rubric** for factual grounding and workflow alignment to compare agent versions before release; served via **FastAPI** on **GCP**.

EXPERIENTIAL LEARNING

The Build Fellowship (Open Avenues Foundation)

Build Student Consultant | eight-week supervised learning projects, not employment

2025 - 2026

Remote

- AI-Powered Image Retrieval With Vector Databases** (Sep–Nov 2025, project leader [Kamalesh Kalirathinam](#)): benchmarked **ResNet-50**, **EfficientNet**, and **ViT** embeddings with **IVF** vs. **HNSW** ablations (top-5 accuracy +25%); deployed on **AWS** with **Docker** and **GitHub Actions CI/CD** at **350 ms p99** over 10K+ **FAISS** and **Qdrant** embeddings.
- Drone Flight Planner System** (Mar–Apr 2026, project leader [Ayush Baid](#)): designed an autonomous flight planner using **A*** and **Dijkstra** search with live obstacle avoidance and **CI/CD** route-safety validation.
- Multi-Objective Investment Portfolio Optimization** (Jun–Aug 2025, project leader [Ce Luo](#)): built a **Python** and **Gurobi** mixed-integer optimizer validated with **Monte Carlo** simulation (Information Ratio 0.824).