

VINAYAK MANE

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[LinkedIn](#)

[GitHub](#)

[Website](#)

Technical Skills

Programming: Python, SQL

AI/ML: LLMs, RAG, Deep Learning (TensorFlow, PyTorch), NLP, Computer Vision, GenAI, LLMs, Hugging Face,

MLOps: MLflow, DVC, CI/CD (GitHub Actions, CircleCI), Docker, Kubernetes

Orchestration & Monitoring: Airflow, Grafana, Prometheus

Cloud & Databases: AWS (EC2, S3, SageMaker), SQL (PostgreSQL/MySQL), NoSQL (MongoDB)

APIs & Frameworks: LangChain, LangGraph, FastAPI, Flask

Tools: Git/GitHub, Jupyter, Linux, Salesforce CRM (Console)

Education

Monash University

Master's in Artificial Intelligence

Feb 2024 – Present

Melbourne, Australia

College of Engineering, Pune

Bachelor of Technology

Jun 2018 – Jul 2021

Pune, India

Experience

Telstra

Retail Consultant (Salesforce CRM Console)

Nov 2024 – Present

Melbourne, Australia

- Served customers in a high-volume tech retail environment; mapped needs to devices, plans, entertainment, and home internet.
- Operated **Salesforce CRM (Console)** for lead capture, customer profiling, case/quote tracking, and pipeline hygiene.
- Coordinated with in-store/HQ ops to reduce resolution times and improve NPS; identified opportunities for AI-driven CRM insights.

Blujay Robotics Pvt. Ltd.

Machine Learning Engineer

Jun 2023 – Jan 2024

Pune, India

- Built Python application for wireless robotic control with **YOLO** and custom CNN/ANN models for object detection.
- Optimized preprocessing and model export to stabilize inference and improve on-device latency.

Deltafour

Data Science Engineer

Nov 2022 – May 2023

Bengaluru, India

- Developed predictive-maintenance pipeline on industrial pump data: **LSTM** anomaly detection + ensemble fault classifiers.
- Implemented **MLOps + CI/CD**; deployed on **AWS EC2**; automated ingestion, training, and scoring workflows.

Personal Projects

SQL Database Chatbot | *LLM, LangChain, RAG, Python, MySQL*

Jul 2024

- Built an AI agent that converts natural language to **safe SQL** (schema-aware prompts, tool-calling, guardrails).
- Added **RAG** over table docs/ERDs; batched queries; robust error handling for ambiguous or failing queries.
- Repo: github.com/Vinayakmane47/database-chatbot Video: [YouTube Demo](#)

Podcast Chatbot | *OpenAI Whisper, LangChain, Python*

Jul 2024

- Ingests podcasts, performs **ASR + diarization**, chunks transcripts, and powers retrieval-augmented Q&A.
- Added memory and follow-ups; supports episode-level search and **speaker-scoped** answers.
- Repo: github.com/Vinayakmane47/podcast-chatbot Video: [YouTube Demo](#)

NASA Turbofan Jet Engine RUL Prediction | *Python, MLOps, CI/CD, Docker, AWS*

May 2023

- Predicted Remaining Useful Life on NASA CMAPSS; feature engineering + regression/ensemble models.
- Implemented **CI/CD (GitHub Actions)**, Dockerized app; deployed via Flask to Heroku/**AWS**.
- Repo: github.com/Vinayakmane47/NASA-turbofan-ML-Project-AIOPS Video: [YouTube Demo](#)

Wafer Sensor Fault Detection | *Python, SQL, MLOps, Flask, CircleCI, Docker*

Jun 2023

- Built PdM classifier (RF, XGBoost, SVM, DT) for faulty wafer sensors with structured data ingestion/validation.
- Added **CircleCI** pipeline and **Docker**; deployed Flask service; produced callable prediction endpoint.
- Repo: github.com/Vinayakmane47/WaferFaultDetection

More Projects (GitHub)

Dog Breed Classifier ([repo](#)) · **Question Similarity (Quora)** ([repo](#)) · **Portfolio & Demos** ([site](#))