

MANAV ISRANI

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EDUCATION

The University of Melbourne, Melbourne, Australia

Mar 2026 – Dec 2027

Master of Data Science (Coursework)

Vellore Institute of Technology (VIT), Chennai, India

Aug 2021 – May 2025

B.Tech. Computer Science and Engineering (Cumulative GPA: 8.92/10.0)

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, TypeScript, SQL

ML & Frameworks: TensorFlow, Hugging Face Transformers, LangChain, LangGraph, OpenCLAW, AutoGen

Systems & Cloud: FastAPI, NestJS, PostgreSQL, AWS, GCP, Docker, Kubernetes, MLflow

ACADEMIC RESEARCH

FasterRes-FPN: A Deep Learning Approach for Micro-plastic Pollution Surveillance in Water Bodies

- Devised FasterRes-FPN (SOTA F1 = 0.9376); research writing and research management for the manuscript and liaison for conference submission; presented results at ICIVC 2025 (DOI: https://doi.org/10.1007/978-3-032-10667-4_24).

AutoMed: Multi-Agent AI System for Personalized Medical Knowledge Retrieval and Summarization

- Constructed a multi-agent framework integrating query refinement, article retrieval and answer curation for biomedical questions, strengthening patient engagement; achieved ~4s time-to-first-token (DOI: 10.1109/ICDSAAI65575.2025.11011656).

RCA-MViT: Residual Convolutional Attention Multi-scale Vision Transformer for Dermatological Disease Classification

- Designed a hybrid ResNet18 + CrossViT model achieving ~90.5% accuracy and ROC-AUC $\approx$ 0.9879 for multi-class classification; research writing and model interpretation (DOI: 10.1007/978-981-96-8687-2_33).

EXPERIENCE

Atlas Counsel

Melbourne, Australia

AI and Web Consultant(Casual)

May 2026 – Present

- Architecting a production-grade AI coaching platform with CI/CD, managed cloud infra and observability pipelines.
- Owned end-to-end AI service delivery, FastAPI backend, Dockerized deployment, CI/CD, and production monitoring at scale.

Square Yards

Mumbai, India

AI/ML Engineer

Jun 2025 – Dec 2025

- Built a Voice Agent Studio generating outbound multilingual AI callers (Twilio, Gemini, ElevenLabs, VAD) from simple scripts.
- Deployed and operated the platform on GCP with Docker, Kubernetes, and automated build-and-release pipelines, taking it from prototype to live client-facing service.
- Added automated testing and structured post-call reporting, cutting caller turnaround to under 10 minutes.

Nihin Media K.K

Remote

AI Engineer Intern

Dec 2024 – May 2025

- Optimized MedGen's RAG pipelines with stronger retrieval and grounding for reliable clinical responses.
- Built a multi-agent Radiology Assistant combining imaging, symptoms, and history for clinical decision support.
- Containerized and deployed evaluation workflows with Docker for reproducible testing and clinician review.

Class One Exchange Private Limited

Chennai, India

Data Science Intern

Sept 2023 – Dec 2023

- Built a BERT recommender for 1,100+ products on AWS, boosting engagement by 8%.
- Analyzed 25K+ user interactions to refine model performance, retention and better LTV(Life-time-value).

HONOURS & ACTIVITIES

Amazon ML Summer School

July 2024

Participant at ACM India Summer School (IIT Gandhinagar, India)

Jun 2024 – Jul 2024

Krypthon Hackathon Healthcare Domain Hackathon Winner (VIT Chennai, India)

Feb 2023 – Mar 2023

Hackoverflow Hackathon Finalist (VIT Chennai, India)

Sep 2022 – Oct 2022