

Nikhil Agarwal

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EXPERIENCE

Oracle

Member of Technical Staff (Applied AI)

Oct 2025 – Present

India

- Developed a **PL/SQL** package, used as the main backend for **Oracle Vector Database Service**, GA March 2026
- Developed an **Ingestion Engine** for **Oracle's Private AI Agent Factory**, enabling asynchronous processing and large database dump downloads.

Oracle

Member of Technical Staff - 1

July 2024 – Sept 2025

India

- Designed and implemented a **Full-text Search Engine** for searching extremely large log and trace files for **AHF Inspect**, a core Oracle Support platform for handling Service Requests (SRs) used by Oracle Support teams

Equinix

Data Science Intern

Jan 2024 – Jun 2024

India

- Worked with various **SLMs, Vector Databases, and fine-tuning techniques** (such as QLoRA and PEFT) to develop a chatbot for Equinix Enterprise public data - with RBAC and query decomposition system

IBM Research India

Research Intern

May 2023 – Aug 2023

India

- Worked on **multi-turn conversation information Retrieval** using then state-of-the-art (SOTA) models such as DPR, ColBERT, Differential Search Index, and HyDE
- Goal: achieve **zero/few-shot** transfer on an unseen dataset with **Recall@5 > 75%**

EDUCATION

IIIT Bangalore

Integrated M.Tech in Computer Science

Aug 2019 – Jul 2024

CGPA: 3.53 / 4.0

- Master's in Machine Learning and AI
- Machine Learning **Teaching Assistant**: Worked with Prof. Dinesh Babu Jayagopi to teach hands-on machine learning using Python and scikit-learn.
- **Alumni Committee**, IIIT Bangalore — Core Member: Organized alumni events and initiatives to maintain and strengthen the alumni network.

SKILLS

AI / ML: LLMs, RAG, NLP, Vector Databases, Information Retrieval

Languages: Python, Java, C++, PL/SQL, JavaScript, HTML, CSS, Solidity, Bash

Tools: Git, Docker, Jenkins, Oracle Database, Lucene

PROJECTS

- **AiChirper (<https://x.com/AiChirper>)**: **AI-powered Twitter/X bot** that summarizes and tweets AI news daily. includes data collection from 20+ sources, **LLM scoring** and **summarization**, and scheduled posting.
- **Semoji (<https://semoji.vercel.app/>)**: Semantic search over **emojis** using a browser-based **vector search** implementation.
- **Namma Yatri UI/UX Research**: Conducted product research and proposed redesign improvements based on user interviews and usability findings.
- **AI in Fashion and Design Hackathon**: Finalist + Presented a market-intelligence solution to bridge the gap between artisans and customers (Institut Français en Inde + French Embassy in India; 70+ participants).
- **#include<people.h>** — Hosted a tech podcast with **3,000+ plays**: 10-episode podcast for STEM students; crossed 3,000 plays with an average retention time of 20 minutes.