

Dhruv Maheshwari

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EDUCATION

PES University, Bengaluru

2027

Bachelor of Technology – **Computer Science and Engineering**

Prof. C. N. R. Rao **Scholarship** (40% tuition merit award); **4× Distinction Award**

EXPERIENCE

Technology Intern – AceNet Consulting

Jun – Aug 2026

Python · FastAPI · AWS Bedrock · LangChain

- Built the backend for **CFO Copilot**, a multi-agent financial analytics platform with **3 specialist agents** and **24 analysis modes** spanning macroeconomic, industry, and financial data.
- Designed LLM query routing and parallel orchestration with **20+ REST API endpoints** covering chat, specialist-agent reasoning, scenario analysis, source lookup, and tool-driven analysis.
- Engineered analytics over **100K+ government-sourced VAHAN records** and external data feeds, with source-linked confidence scoring and verification for auditable findings.

AI App Development Intern – xForm Solutions

Jun – Jul 2025

Python · Speech Recognition · Translation · Intent Classification

- Built a multilingual speech pipeline for code-switched English, Hindi, and Tamil, chaining ASR, translation, and semantic intent classification for Tier 2/3 city users.
- Benchmarked **150 Google FLEURS clips** across English, Hindi, and Tamil (**6.4% English CER**); added resampling, ASR correction, and an evaluation harness for repeatable comparisons.

PROJECTS

pRAGma – Explainable RAG & Retrieval Evaluation

Python · FastAPI · ChromaDB · FastEmbed

github.com/dhruvm-04/pRAGma

- Built a **Retrieval-Augmented Generation (RAG)** PDF application with asynchronous ingestion, local embeddings, evidence-linked answers, and **5 query strategies** (direct, multi-query, decomposition, step-back, HyDE).
- Designed an **80-question offline evaluation set** across **8 reference documents**, including **16 unanswerable queries** to probe retrieval and abstention.
- Instrumented retrieval with evidence snippets, similarity scores, query traces, latency, and token usage.

aiCFO – Parallel Multi-Agent Analytics

Python · LangGraph · Pydantic · Pandas

github.com/dhruvm-04/aiCFO

- Orchestrated parallel automotive and macro agents over shared LangGraph state before CFO synthesis of typed trends, caveats, and recommendations from both agents.
- Integrated **17 LLM-callable analytical tools** across vehicle registrations and macro series; enforced Pydantic schemas and bounded tool-calling loops.

paraTile – Kafka Distributed Processing

Python · Apache Kafka · FastAPI · Pillow

github.com/dhruvm-04/paraTile

- Built a **12-partition Kafka** image-processing pipeline with **3-second heartbeats**, **10-second timeouts**, manual offset commits, and duplicate-tolerant result aggregation.

MusiConvert – Reliable Encrypted Networking

Python · UDP Sockets · Fernet

github.com/dhruvm-04/MusiConvert

- Built **Selective Repeat ARQ** over encrypted UDP; stress-tested **200-packet streams** at up to **40% simulated loss**.

SKILLS

Languages & DSA: Python, SQL (MySQL), Data Structures & Algorithms (DSA)

RAG & Retrieval: Retrieval-Augmented Generation (RAG), embeddings, vector search, ChromaDB, FastEmbed

AI & Data: LangChain, LangGraph, Agno, AWS Bedrock, Hugging Face, Pandas, Prompt Engineering

Backend & Cloud: FastAPI, Uvicorn, REST APIs, Pydantic, Apache Kafka, Docker, Kubernetes, Git/GitHub, Azure

ACHIEVEMENTS & LEADERSHIP

1st Place, PES Digital Twin & XR Hackathon 2026 ([demo](#)); **Head of Design**, Maaya 2025; taught 3D modeling to ~**50** students.

Under Secretary General, MUNSoc PESUECC; led chassis design and fabrication for **Team Vegavath** (automotive club).

CERTIFICATIONS

[View credentials](#)

AWS Prompt Engineering Foundation (2025) · **IBM** Fundamentals of AI (2025) · **Google** IT Automation with Python (2023)