

# Harsh Dayal

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## Education

VIT BHOPAL UNIVERSITY – Bachelor of Technology in Computer Science and Engineering October 2026

## Technical Skills

**General:** Python, C, C++, SQL, Git, CI/CD, Linux, GCP, Azure, Docker, MongoDB, PostgreSQL, FastAPI, Flask  
**AI & ML:** TensorFlow, PyTorch, MCP, LangChain, LangGraph, RAG, Vector DBs, LLMs, ViTs, Data Science  
**Professional:** Problem-Solving, Team Leadership, Project Management, Agile Research, Curiosity, Adaptability

## Professional Experience

**AI Engineer Intern at YoLearn.ai** May 2025 – Present

- Led student module team engineering 3 AI Agentic Companions; architected LangChain to enterprise-level LangGraph transition, enhancing system scalability and modularity.
- Spearheaded Tutor companion development using advanced RAG (QdrantDB, Supabase) and Mem0 memory extraction, achieving 2x personalization & 500% system evaluation improvement.
- Developed 40+ key agents with custom tools (e.g., Researcher, Example Generator) and an efficient prompt ingestion system for consolidating multiple user inputs into optimized LLM prompts.

**AI Developer Intern at Debales.AI** February 2025 – May 2025

- Engineered a multi-agent ticketing system (Zendesk, Zapier, MongoDB), boosting client operational efficiency by 40%; also developed an automated chat tagging & KPI identification system (CRON jobs, large-scale databases) achieving 92% accuracy.
- Drove development of advanced agentic conversational chatbots, including a merged dual-client system with context switching (18% engagement uplift); created various AI agents (LangGraph, Langflow, OpenAI SDK) improving sales 15% & client engagement 32%.
- Designed and implemented a core embedding training system, empowering client teams to independently train AI models on product data, significantly streamlining chatbot customization and enhancing relevance.

## Projects

**Cascade - GenAI Study Companion** (Python, BeautifulSoup, Finetuned LLM, SQLite, GCP, PyQt, Tkinter)  

- Designed GenAI ecosystem for personalized learning with NLP and adaptive scheduling & learning.
- Built syllabus assessments, progress tracking, and Q&A system with context retention.
- Built Gamified Skill Improvement System based on career roadmaps; improved learning outcomes by 30%.

**Mosaic - AI Discovery Platform** (Python, LangGraph, Agentic RAG, FastAPI, QdrantDB, MongoDB)  

- Engineered 'Discovery Graph', enabling users to find relevant AI articles 72% faster than traditional feeds.
- Architected a MAS pipeline to ingest, process, and tag updates daily, serving data via FastAPI.
- Developed a personalized digest system with a 'judge' within an agentic reflection to evaluate content quality,

## Certifications

Cloud Computing, NPTEL 	May 2024
Algorithms Specialization, Stanford University Online 	April 2024
CS50's Introduction to Computer Science, Harvard University 	December 2023
Machine Learning Specialization, DeepLearning.AI 	June 2023

## Awards & Recognition

- **WINNER** - Google GenAI Exchange Hackathon (2024)
- **FINALIST** - Prasenuthon Hackathon
- **OPEN SOURCE CONTRIBUTOR** - PyPDF CLI (pdfly) - Hacktoberfest 2024