Bhavya Jethi

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Education

Dronacharya College of Engineering   *Oct 2022 – Jun 2026*
B.Tech in Computer Science

- CGPA: 7.64/10.0
- **Coursework:** Data Structures and Algorithms, Python Programming, Introduction to Data Science, MongoDB, Computer Vision and Deep Learning, Machine Learning

Experience

Software Developer Intern   *Noida, IN*
Agratas Infotech   *June 2024 – Sep 2024*

- Architected modular backend flows in Django and improved frontend load performance by 25% through asynchronous API optimizations.
- Refactored legacy components, reducing backend logic complexity by 40% and enabling easier testing and extension.
- Mentored a team of 5 junior contributors, introduced structured code reviews and issue tracking using GitHub Projects.
- Integrated secure form validations, and responsive design for an internal business dashboard.

Deep Learning Trainee   *Remote*
IGDTU   *June 2024 – Aug 2024*

- Completed a 6-week Deep Learning internship focused on Deep Learning and Neural Networks at IGDTU.
- Conducted experiments with OpenAI GPT, Hugging Face Transformers, and Gemini API to enhance summarization and QA performance.

Projects

LLM semantic book recommender   *Github Link* ↗

- Created a book discovery engine using sentence embeddings and category-aware filtering via zero-shot classification.
- Supported emotion-based ranking using RoBERTa sentiment scoring. Deployed via Gradio, with semantic search powered by HuggingFace Transformers.
- Impact: Delivered personalized recommendations via natural language, outperforming keyword search on niche queries.

AI Research Assistant   *Github Link* ↗

- Developed a dual-agent assistant using LangGraph and Gemini 1.5 Flash to answer complex queries with factual grounding and source links catering to students for reports.
- Integrated speech-to-text input, multilingual response translation, and PDF export. Built on Streamlit with Google Search APIs, Googletrans, and fpdf in a streamlit application.
- Impact: Enabled students and researchers to run agentic multi-hop reasoning in a no-code environment.

Technologies

Languages: Python, C++, R, SQL
Technologies: MYSQL Workbench, MS Word, MS Excel
Libraries/Frameworks: Django, Flask, TensorFlow, Numpy, Pandas, Matplotlib, OpenCV, HuggingFace

Achievements

Analytica : Finalist of IIT Indore's Analytica National ML Competition (April 2024)
PCI : Finalist of PCI Coder Battle (Jan 2024)
IDE : Progressed till the final round of IDE Bootcamp (Jun 2023)