

UMANGI NIGAM

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EDUCATION

B.Tech, Computer Science and Engineering

Sept 2022 – Jun 2026

Bennett University, Greater Noida, India

CGPA: 8.26 / 10

Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Statistics for Data Science, Data Analytics with Python, Machine Learning, Software Engineering, Cloud Computing, Web Technologies, Generative AI, Prompt Engineering

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL

Web Development: HTML, CSS, React.js, Node.js, Express.js, Vite, Streamlit, Flask, MERN, Typescript

Databases & Cloud Platforms: MySQL (Advanced), MongoDB, BigQuery (GCP)

Version Control & Dev Practices: Git, GitHub, Agile, Testing & Debugging, Code Reviews

Machine Learning & AI: Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, Spark, Hugging Face Transformers, NLP, LLMs, Generative AI, Prompt Engineering, Model Fine-tuning

Deep Learning: CNNs, BERT, DistilRoBERTa, GPT-2, Transformer Models

EXPERIENCE

Software engineer Intern – Gyde (Remote) (React.js, Node.js, LangChain, OpenAI APIs)

May 2025 – Aug 2025

- Built scalable features with **React.js** and **Node.js**, improving page load speed by **25%**.
- Developed LLM-powered modules for personalized AI interactions using **LangChain** and **OpenAI APIs**.
- Resolved 20+ bugs and integrated APIs in Agile sprints, reducing data latency by **30%**.

Salesforce Virtual Internship (Salesforce CRM, Apex, Dashboards)

Apr 2025 – Aug 2025

- Configured **15+ custom objects** in Salesforce sandbox, **improving data access by 30%**.
- Built dashboards and reports to visualize leads, **enhancing stakeholder decision-making**.

ACADEMIC PROJECTS

RAG Chatbot – Document-Aware AI Assistant (Python, Flask, OpenAI API, React, TailwindCSS)

May 2025

- Developed a **Retrieval-Augmented Generation (RAG) chatbot** supporting **PDF, DOCX, and TXT uploads**, enabling users to ask questions and receive AI-generated answers grounded in document content.
- Implemented **conversation memory** and an interactive **React + Tailwind UI** with secure backend integration (Flask, OpenAI API), improving contextual multi-turn responses.

Agentic Workflow – LangGraph Task Executor (LangGraph, Hugging Face, LLM pipeline, Colab)

Jun 2025

- Designed an **agentic planner-reflector-executor loop** using **LangGraph** and **Hugging Face Transformers** to decompose user queries into subtasks, execute them iteratively, and reflect on outcomes.
- Deployed in **Google Colab** with a local **LLM pipeline**, enabling structured, modular, and fully open-source workflow execution.

SafeCast – AI Surveillance System (Python, YOLOv11, OpenCV, Flask, React, Firebase)

May 2025

- Weapon detection system with **YOLOv11**, real-time alerts ;3s at **92% accuracy**.
- Integrated **Socket.IO + Firebase** for 100+ concurrent feeds.

Mindly – AI Mental Health Assistant (DistilRoBERTa, GPT-2, Flask, React, Python)

Oct 2024 – Nov 2024

- NLP chatbot with **DistilRoBERTa + GPT-2**, 83% accuracy on 1,000+ prompts.
- Integrated **Hugging Face + Flask + React** for 300+ conversations.

RESEARCH

- Underwater Waste Detection Using High-Performance Computing**
Published in IEEE Xplore.

Dec 2024 – Feb 2025

- Mindly – AI Mental Health Assistant**
Demo paper showcasing an NLP-driven, emotion-aware chatbot.

Oct 2024 – Nov 2024

VOLUNTEER PROJECTS

AI Resume Review Assistant

Jul 2025 – Aug 2025

- Built on Puch.AI's FastMCP using Groq's LLaMA 3, pdfminer, Ngrok, enabling instant resume feedback via WhatsApp.

CERTIFICATIONS

Accenture Nordics - Software Engineering Job Simulation | Convolutional Neural Networks | IBM Machine Learning Professional Certificate | Harnessing the Power of Data with Power BI | Google Data Analytics Professional Certificate

ACHIEVEMENTS

- Solved **300+ problems** on LeetCode & CodeStudio. (Profile)
- Top 14 / 1000+ teams** at TechSprint Hackathon 2025 for scalable AI traffic monitoring system.