

# 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, Power BI

**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.

### Uber Data Analysis (Power BI, Excel, DAX, Data Visualization)

Mar 2025

- Cleaned and transformed Uber ride data using **Power BI** and **Excel**; applied **DAX**, filters, and calculated columns to mimic SQL-like logic for analyzing trip volumes, peak demand hours, and revenue trends.
- Built interactive dashboards with **slicers, KPIs**, and cross-filtered visuals, enabling fast and insightful **data-driven decision-making** across operations.

### 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.