UMANGI NIGAM

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EDUCATION

Bennett University, Greater Noida, India Jun 2026 (Expected)
Bachelor of Technology, Information Technology
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

TECHNICAL SKILLS

Programming Languages: Python,C++, JavaScript,R,SQL
Web Technologies: HTML, CSS, React.js, Node.js, Express.js,Streamlit, Flask,Vite,Cloud Applications, Agile Methodology, GitHub, Testing & Debugging, Code Reviews
Databases: MongoDB, MySQL (Advanced),BigQuery (Google Cloud Platform)
AI/ML Frameworks: Scikit-learn, TensorFlow, Keras, OpenCV, Hugging Face Transformers
Deep Learning: CNN, BERT, DistilRoBERTa, GPT-2, Transformer models

EXPERIENCE

Software Engineer Intern *May 2025 – Present*
Gyde – Remote
- Developed and maintained scalable web application components using React and Node.js, resulting in a **25% reduction in page load time** and improved backend performance.
- **Collaborated with a 6-member agile team** to deploy 5+ new features, **optimized RESTful APIs**, and resolved 20+ critical bugs, enhancing system stability and user experience.

Salesforce Virtual Internship *Apr 2025 – Present*
- Configured **15+ custom objects** in Salesforce sandbox to simulate business operations, **improving data access by 30%** and streamlining reporting functionality.
- Built dashboards and reports to visualize leads, **enhancing stakeholder decision-making**.

PROJECTS

SafeCast – AI Surveillance System (GitHub) May 2025
- Built an AI-based weapon detection system using **YOLOv11, OpenCV, Flask, React**, enabling real-time alerts in under 3 seconds with **92%+ accuracy**.
- Designed dashboards and integrated **Socket.IO + Firebase** to support **100+ concurrent video feeds**, reducing manual monitoring time by **40%**.

Uber Data Analysis (GitHub) *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** featuring slicers, KPIs, and cross-filtered visuals to support fast and insightful **data-driven decision-making** across operations.

Mindly – AI Mental Health Assistant (Website) Oct 2024 – Nov 2024
- Developed an NLP-powered chatbot using **DistilRoBERTa + GPT-2**, achieving **83% classification accuracy** on 1,000+ emotional prompts.
- Integrated **Hugging Face + Flask API + React** to handle over **300 chatbot conversations** in testing.

ACHIEVEMENTS

- **Solved 300+ algorithmic problems** across platforms like LeetCode and CodeStudio, showcasing strong skills in data structures and problem-solving. (LeetCode)
- **Top 15 out of 1,000+ teams** at the national-level **TechSprint Hackathon 2025** for developing a scalable AI-based traffic monitoring system using computer vision and real-time analytics.
- **Research Publication:** *Underwater Waste Detection Using High-Performance Computing* — published in IEEE Xplore. (Published)
- **Demo Paper:** *Mindly – AI Mental Health Assistant* — published demo paper showcasing an NLP-driven, emotion-aware chatbot.

CERTIFICATES

- **Accenture Nordics - Software Engineering Job Simulation** – (Forage) *Jun 2025*
- **Convolutional Neural Networks**-(Coursera) *Nov 2024*
- **IBM Machine Learning Professional Certificate** –(Coursera) *Sep 2024*
- **Harnessing the Power of Data with Power BI** -(Coursera) *Sep 2024*
- **Google Data Analytics Professional Certificate** –(Coursera) *Jun 2024*