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UMANGI NIGAM

+91-7068716124 • Greater Noida, India

nigamumangi@gmail.com • linkedin.com/in/umangi-nigam • github.com/Umanginigam • portfolio/Umanginigam

OBJECTIVE

Detail-oriented and enthusiastic Computer Science student with expertise in web development, AI/ML, and data analysis. Seeking a role to apply my technical and problem-solving skills in building innovative solutions that deliver real-world impact.

EDUCATION

Bachelor of Technology in Information Technology, Bennett University   Sep 2022 - June 2026
CGPA: 8.2

SKILLS

Frontend	HTML, CSS, JavaScript (React),Streamlit, Flask
Backend	Python (Django, Flask), Node.js, MongoDB, MySQL
Machine Learning	Scikit-learn, TensorFlow, Keras, OpenCV
Deep Learning	CNN, BERT, Transformer , GenAI
Programming	C++, Python

PROJECTS

AeroSpectra   Aug 2024 - Sep 2024
GitHub Repository

- Built an AI/ML platform to generate fine spatial resolution air quality maps focusing on NO2 concentrations.
- Analyzed 250+ satellite images, achieving 84 percent accuracy with a Random Forest model.
- Implemented cloud handling techniques, improving accuracy by 20 percent in cloudy regions.
- **Technologies:** Python, TensorFlow, Flask, React.js, Folium, HTML, CSS, JS.

Agritech   Feb 2024 - Mar 2024
GitHub Repository

- Developed a crop prediction system suggesting optimal crops based on environmental factors.
- Built a crop yield prediction model to assist in planning and resource management.
- Implemented a disease detection system, achieving 85percent accuracy in predictions.
- **Technologies:** HTML, CSS, Flask, TensorFlow, Streamlit.

Mindly   Oct 2024 - Nov 2024
GitHub Repository

- Developed an AI-powered mental health assistant with emotion detection using the DistilRoBERTa model.
- Integrated GPT-2 transformer to generate empathetic responses tailored to user emotions.
- **Technologies:** Python, Hugging Face Transformers, Flask, HTML, CSS, JS, BERT.

ACHIEVEMENTS

- "Underwater Waste Detection Using High-Performance Computing" - Published at Jaypee Solan.
- "Hate Speech Detection in Hinglish Using Deep Learning" - Submitted for conference presentation.
- Published a demo paper on "Mindly: AI-Powered Chatbot with Emotion Detection."