

TANVI MANDHAN



EDUCATION

INSTITUTE OF ENGINEERING AND TECHNOLOGY,LUCKNOW

2022 - 2026

Bachelors in Computer Science And Engineering (GPA:9.11/10)

Coursework:

Software Engineering
Database Management System

Computer Networks
Artificial Intelligence

ACCOMPLISHMENTS

UNDERWATER PLASTIC DETECTION

- Overview: Developed a computer vision system to detect submerged plastic waste in underwater imagery. Leveraged deep learning-based object detection models trained on custom datasets to classify underwater debris such as plastic bottles, bags, and cups.
- Tech Stack: Python · YOLOv5 / YOLOv8 · Flask (for web application) · OpenCV · Roboflow datasets.

TWITTER SENTIMENT ANALYSIS

- Built a Twitter Sentiment Analysis model using TF-IDF vectorization and machine learning algorithms to classify tweets into positive, negative, or neutral sentiments.
- Utilized a Kaggle dataset for training and testing, with extensive preprocessing including tokenization, stop-word removal, and lemmatization. Visualized sentiment distributions and key insights through Matplotlib

PDF Reader

- Built an intelligent document question-answering system using Google Gemini Pro and LangChain, enabling users to query multiple PDF documents simultaneously.
- Tech Stack: Python · LangChain · Google Gemini Pro API · FAISS Vector Store · Streamlit.

ACHIEVEMENTS

- 500+ Problems solved on [LEETCODE](#)
- 500+ Problems solved on [CODEFORCES](#)(Pupil)
- 200+ problems solved on [CODECHEF](#)(3 star)
- Secured 326 rank among 25000+ participants in an online coding contest held on codechef.
- Secured under 35 rank in howzat contest held on hackerrank.
- Secured 2nd Rank in Internal Hackathon 2023 ([Smart India Hackathon](#)).

TECHNICAL SKILLS

- Languages:c++/c/Python/SQL
- Frontend:React.js,Next.js,Tailwind CSS,HTML,Javascript,Shadcn
- Backend:Node.js,Express,MongoDB,MySQL,FireBase,PostgreSQL,Bootstrap
- AI/ML:Langchain,RAG,Generative AI,OpenAI APIs,claude,Gemini
- Data structures and Algorithms and Problem solving Skills
- Developement tools:Visual Studio code,Sublime text,Github,Vercel

EXTRA-CURRICULAR ACTIVITIES

- Class representative of Computer science and engineering branch in BTECH stream in IET LUCKNOW.
- An active Member of INSANIAX:The Dance club,IET LUCKNOW.
- An active listener with good interpersonal skills.