Anubhav Singh

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Education

Thapar Institute of Engineering and Technology
B.E. in Computer Engineering (COE)
Graduation Year: 2026

Navjeevan Science School
Higher Secondary Certification (96.8%)

Projects

SmartDoc AI – PDF Summarizer & Chatbot | *Python, Streamlit, HuggingFace, Transformers, OpenAI API*

- Built a web app to summarize PDFs and answer user queries using LLMs (T5 + OpenAI).
- Achieved 90–95% summary accuracy with average processing time of <4 seconds per document.
- Deployed on Streamlit Cloud, tested on 200+ documents including research papers and reports.

Voice-Based Age & Gender Recognition | *TensorFlow, LSTM, Librosa, Gradio*

- Built an LSTM-based system to classify speaker gender and age group (teens–sixties) from voice clips.
- Achieved 95% gender and 85% age group classification accuracy on validation data.
- Processed 30k+ samples using MFCCs, pitch & delta features.

FractureAI – Crack Detection | *Python, Scikit-learn, DBSCAN, Random Forest, Signal Processing*

- Built an ML pipeline to detect internal cracks in concrete using 8,000+ acoustic emission events.
- Applied clustering to label crack-like events, achieving 92% accuracy in a follow-up Random Forest classifier.
- Detected and visualized crack progression over an AE sequence, enabling real-time structural health insights.

Guest House Booking Website | *MongoDB, Node.js, Express.js, HTML/CSS, JavaScript*

- Built a full-stack website for guest house room booking with real-time availability and secure user login.
- Used MongoDB to store user data, room inventory, and booking history.
- Designed responsive frontend using HTML/CSS and JavaScript, with RESTful APIs connecting to the backend.

Experience

Core Member – Creative Computing Society   **Nov 2022 - Present**
Thapar University
- Participated in various technical competitions and events organized by the society.

Internship in Emerging Technologies (AI & Cloud)   **July 2024 – Aug 2024**
Edunet Foundation in Collaboration with AICTE
- Completed a 4-week internship utilizing SkillsBuild & IBM Cloud Platform.
- Gained hands-on experience in AI and Cloud technologies.

Project Lead   **Aug 2024 - May 2025**
Thapar University
- Led 5+ group projects including DBMS and NLP systems, built Hindi named entity recognition using Transformers (IndicBERT, mBART).

Technical Skills

Languages: Python, Java, JavaScript, C/C++, HTML/CSS
Frameworks/Libraries: Node.js, Express.js, TensorFlow, Keras, Librosa, Gradio, Flask, Scikit-learn
Tools & Platforms: Git, Google Colab, VS Code, Postman, MongoDB, MySQL