Guransh Chugh

Thapar University, Patiala

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Education

Thapar Institute of Engineering and Technology	2023 – 2027
B.E. Computer Science and Business System	*Patiala, Punjab*
Kundan Vidya Mandir, Ludhiana, Punjab	2019 – 2023
CBSE (X): **90.40%**　CBSE (XII): **90.30%**	*Ludhiana, Punjab*

Projects

YouTube Video Intelligence Pipeline – AI-Powered Content Analyzer ⬡ *2025*
Tech Stack: Python, Whisper, spaCy, FAISS, Groq, Hybrid NLP
- Architected end-to-end pipeline ingesting YouTube videos to generate **searchable QA systems**, reducing manual analysis time by **70%**
- Engineered **noise-resistant audio transcription** (Whisper) & text-cleaning algorithms achieving **95% accuracy** on benchmark datasets
- Deployed hybrid **FAISS + keyword retrieval** with Groq's Mixtral-8x7B, delivering answers with **source attribution in <2s latency**

Lend X – AI-Powered Bank Statement Analyzer ⬡ *2025*
Tech Stack: Python, NLP, Web Scraping, ML
- Developed fintech platform parsing/visualizing bank statements for **first-time borrowers**
- Created **PDF-to-CSV converter** & social media complaint analyzer (**1000+ tweets across 4 banks**)
- Designed income/expense visualizations with **90%+ user accuracy** in testing

Credit Card Fraud Detection ⬡ *2024*
Tech Stack: Python, Scikit-learn, XGBoost
- Designed fraud detection system for **imbalanced dataset (284k legitimate vs 493 fraud cases)**
- Achieved **99.95% precision** with Decision Trees and **99.91%** with XGBoost

SKILLS & TECHNOLOGIES

Programming Languages : Python, C++, C, SQL, HTML, CSS, JavaScript
Technologies/Frameworks : React.js, Flask, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, XGBoost, BERT
Developer Tools : Git, GitHub, Docker, Figma, VS Code, Jupyter Notebook, Excel
Concepts: Machine Learning, Deep Learning, NLP, Data Visualization, REST APIs, OOPS
Soft Skills : Leadership, Teamwork, Public Speaking, Collaboration, Formal Presentation

Awards and Achievements

Semi-Finalist - Hindustan Petroleum Case Study Competition Feb 2025
Hindustan Petroleum Corporation Limited
- Ranked in **top 50 national teams** from 100,000 entries for ideating **Navjivan**, solving **biodegradable waste management** in rural areas

Finalist - HackTU 6.0 (MLH Sponsored) Feb 2025
Thapar Institute of Engineering and Technology
- Competed among **100+ teams** in national hackathon developing **Fintech solution** for **EMI prediction** through bank statement analysis

Winner - KaggleWars, TIET Nov 2024
Thapar Institute of Engineering and Technology
- Processed **cardiovascular dataset** with **10,000+ rows** and performed comprehensive EDA

Positions of Responsibility

Google Developer Student Clubs Thapar (Core Member) Jun 2024 – Present
Machine Learning Lead
- Led ML bootcamp for 50+ recruits with 40% skill adoption improvement
- Managed tech/logistics for 500+ participant orientation event
- Guided Kaggle team to 1st prize competition win