

Prabhmehar Pal Singh Bedi

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EDUCATION

Thapar Institute of Engineering and Technology

Patiala, India

Bachelor of Engineering in Electronics and Computer; Minor in Conversational AI by NVIDIA

2021 – 2025

CGPA : 8.25

GRM School, Bareilly

India

CBSE; Senior Secondary (12th): 93%

2021

GRM School, Bareilly

India

CBSE; Secondary (10th): 94.4%

2019

POSITION OF RESPONSIBILITY

Finance Secretary | [link](#)

Jan. 2023 – Present

Environment Conservation Club

India

- Managed **funds allocation**, treasury operations, and **budgeting** for the club.
- Organized a society fair showcasing past projects and led the development of six projects involving 50+ students
- Enhanced financial acumen in **financial management** and effective collaboration with senior stakeholders.

PROJECTS

Fracture Detection | *Git, Keras, TensorFlow, OpenCV* | [link](#)

Sept 2024

- Developed and deployed a real-time fracture detection system using CNNs, integrated into a full-stack web application, allowing users to upload images and get predictions in real-time, achieving **90% accuracy**.
- Implemented a web interface, ensuring seamless interaction between the deep learning model and the user, with **optimized response time**.
- Fine-tuned model hyperparameters** and deployed the application on a cloud platform to ensure real-time accessibility and efficient performance.

Real Time Motorcycle Helmet Rule Violation Detection | *ELC Thapar*

July 2024

- Developed and implemented a real-time motorcyclist helmet rule violation detection and warning system using **YOLO v8**, achieving **86.8% accuracy**.
- Integrated the model with **Jetson Nano** for **real-time detection**, enhancing road safety measures.
- Evaluated the effectiveness of two advanced neural network architectures, ResNet50 and VGG19; findings contributed to enhancing overall system precision by refining implementation strategies during development phases.

Article Sentiment Analysis | *Tableau, BeautifulSoup* | [link](#)

Jan 2024

- Engineered a sentiment analysis system to extract emotional tones from articles, with an **accuracy score of 86%**
- Implemented **web scraping** with Python (requests, BeautifulSoup) for data collection from diverse online sources.
- Applied advanced NLP techniques (**tokenization, stopword removal**) using nltk for precise sentiment analysis.
- Developed an interactive visualization dashboard using **Tableau** to display sentiment analysis insights effectively.

SKILLS

Languages: C/C++, Python, SQL

Developer Tools: MS Excel, SQL Workbench, VS Code, Git

Libraries: NumPy, PyTorch, Matplotlib, Tensorflow, Keras

Coursework: Operating System, Database Management Systems, Computer Architecture

Soft Skills: Leadership, Team Management, Communication, Strategy, Public Speaking, Analytical Problem Solving

ACHIEVEMENTS

Winner of the "Wolf of Dalal Street", the largest finance competition at Thapar

Developed and Implemented a Black Line Follow Robot Car

Certified in Data Science for Engineers by IIT Madras