

MANPREET SINGH

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EDUCATION

- ❖ **THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY** (Sep '20 – Present)
BE in Computer Engineering
CGPA: 8.33/10.0
 - **Relevant Coursework:** Object-Oriented Programming, Operating Systems, Software Engineering, Computer Networks, Data Structure & Algorithms (C++), Database Management Systems.
- ❖ **SANAWAR AN INSTITUTE FOR CHILDREN** (Mar'20)
XII CBSE (Non-Medical) 90.6%
- ❖ **ST. JOSEPH'S HIGH SCHOOL** (Mar'18)
X ICSE (1st in boys, 3rd overall) 93.84%

TECHNICAL SKILLS

- ❖ **Programming Languages:** C, C++, Python
- ❖ **Front-End Technologies:** HTML5, CSS, JavaScript
- ❖ **Back-End Technologies & Database:** Node.js, Express, MongoDB, SQL
- ❖ **UI/UX:** Figma, Adobe PhotoShop, Canva, Figma
- ❖ **Tools:** Linux(UBUNTU), VSCode, Git, Github, Google Colab, Matlab, Tableau
- ❖ **Hardware:** Arduino(IoT Technologies), Interfacing, Sensor(Modules) Programming

TECHNICAL PROJECTS

- ❖ **Li-Fi: Smart Toll Collection System** | [Link](#) (Jan'23 – Dec'23)
 - Development of a Smart Toll Collection System utilizing Li-Fi (Light Fidelity) technology.
 - Implemented hardware components (transmitter, receiver, photodiodes) enabling efficient data transfer.
 - End to end Webapp Dev. using HTML, CSS and Python providing real-time updates on toll deductions.
- ❖ **MedieGenie (Medicine Recommendation System)** | [Link](#) (Feb'23 – May'23)
 - End-to-end website using HTML, CSS with Flask backend, enabling text and audio inputs.
 - Curated datasets and performed extensive data preprocessing to generate accurate prediction.
 - Used various Machine Learning classification models to predict Disease based on symptoms.
- ❖ **WhatsApp Chat Analyzer** | [Link](#) (June'22 – Oct'22)
 - Developed a Python-based WhatsApp Chat Analyzer integrated with Streamlit web application.
 - Conducted sentiment analysis on uploaded chat data (txt format) using NLP and ML concepts.
 - Used Data Visualization concepts to translate information in visual context(WordCloud, Graphs, Charts).

MINOR PROJECT

- ❖ **Podcast Summarization** | [Link](#)
 - Used Assembly AI's API for summarization feature and ListenNotes API to fetch podcast IDs.
 - Integrated with Webapp using Python-Streamlit framework to provide interface for user interaction.
- ❖ **Portfolio Website** | [Link](#)
 - User-centric front-end website using HTML, CSS, and JavaScript.

AWARDS AND CERTIFICATIONS

- ❖ Awarded **TIET Merit Excellence Scholarship** worth Rs. 1.5Lakh in 3rd Semester.
- ❖ Completed **Machine Learning Foundations** offered by **AWS Academy**. [Link](#)
- ❖ Completed **Data Science Specialization** (Coursera Certifications). [Link](#)
- ❖ Participated in various **Hackathons**, organized by Thapar Societies (CCS, OWASP, MLSC). Among top 10 in MLSC.
- ❖ **Sports head** (St. Joseph's High School, Mandi Dabwali) (2017-18)

INTERESTS

- ❖ Football, Photography and Music.
- ❖ Exploring and learning new tech.