

MANSI GAMBHIR

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Education

Thapar Institute of Engineering and Technology

August 2022 – June 2026

Bachelor of Technology (Biotechnology)

Meerut Public School

April 2019 – March 2020

Senior Secondary Education (Percentage: 96.40%)

Experience

Research and Development Intern

January 2024 – Present

Experimental Learning Center TIET

Patiala

- * Engineered ML-powered IoT device for **85%** accurate non-invasive TB detection recognized by ICMR
- * Developed an automated data-driven system to analyze and quantify complex patterns in radiation effects on human tissues
- * Conducted research on biomarkers for breast cancer detection using deep learning techniques (**GRANT- 21L**)

Centre for Artificial Intelligence and Robotics

November 2024 – Present

Defence Research and Development Organisation

Bangalore

- * Analyzed research papers to derive actionable insights as well as data-driven analysis
- * Collaborated with stakeholders to establish testing protocols, showcasing adaptability and persistence.
- * Optimized model accuracy to **66%** using problem-solving and data-driven decision-making skills.

Projects

AI Medical Assistant

October 2024

- Engineered Models like google tts for text to speech and speech to text integrating generative AI
- An interactive session between patient and doctor with diagnosing problems through LLM
- Effective reading of medical reports through YOLO image segmentation network as well as predicting **50%** accurate diagnosis

Churn Risk Assessment in Credit Card Users

June 2024

- Developed a predictive model for consumer churn using machine learning algorithms, analyzing key customer behavior
- Utilized data preprocessing techniques to handle missing values, feature engineering, and model optimization
- Achieved **85%** accuracy, demonstrating efficiency in data interpretation as well as a dashboard for visualization

Co-Curriculars

AIIESEC International : Managed **100+** participants in a global business case challenge, utilizing LinkedIn and email outreach to engage stakeholders and drive participation.

Rotaract Club TIET: Organized and collaborated various **3+** events for orphans and weekly teaching sessions of underprivileged

Skills And Interests

Programming & Framework: Matplotlib, NumPy, Python , Power BI , Pandas, Seaborn , Scikit-learn

Data Science & Analytics: Exploratory Data Analysis (EDA), Feature Engineering , Predictive Analytics , Data Collection , Data Cleaning & Visualization , Research , Machine Learning

Business development Skills :LinkedIn Outreach, Email Campaign Management, Client Relationship Building, Market Research, Persuasive Presentation

Tools: GIT , Microsoft Excel , ChatGPT , Claude

Certifications & achievements

Awarded TIET Merit Scholarship of 1.5 L for being Among top 10% Students in the branch

Nov-2022

PUBLICATION: Biomarkers of Breast Cancer detection using Thermal Imaging along with AI

June-2025

Amazon Machine learning Summer School

July-2024