Student Name Pankaj Mirchandani
BTech Computer Engineering 2026
Date of Birth: 29/07/2004

Education

MPSTME, NMIMS University	**2022 - 2026**

B.Tech in Computer Engineering
CGPA: 3.80/4.00

Khar Education Society	**2020 - 2022**

HSC: 77.33%

Smt. RSB Arya Vidya Mandir Juhu	**2020**

ICSE: 93.83%

Projects

Agentic AI for Startup Assistance and Real Estate Agents (2025)
Created an Agentic AI platform using Gemini, Retrieval Augmented Generation, caching and web scraping. Made on python with django. Implemented vectorised database with ChromaDB and MySQL.

Cryptographic Autoencoder (2025)
Created an autoencoder architecture that allows for random encoding using machine learning. Used PyTorch and assistance from cybersecurity industry experts to develop a safe and secure system

Machine Translation using ROPE Transformers - (2025)
Made a machine translation system trained on medical transcripts to translate English to Xhosa for accessible medical services. Used Transformer architecture with rotational positional embeddings.

SpringBoot HealthCare Management (2025)
Hospital management app built using Spring Boot, Prometheus, Swagger API, Docker, Kubernetes and Redis for caching.

Lip Reader AI (2024)
Built using RNN, LSTM, and CTC loss in TensorFlow. Efficient lip reading is needed for surveillance or assistance.

Stock Market App (2024)
Dagger-Hilt Dependency Injection, Kotlin with Jetpack Compose, SOLID architecture, Local Caching. Uses Alpha Vantage stock services API to create stock graphs and company insights with infinite scroll.

Pneumonia Detection AI and Mobile App (2024)
Detects Pneumonia in Chest X-rays using CNNs. Built on Tensorflow and plugged into an Android Studio App.

Obstacle Avoiding Rover(2023)
Made on Arduino hardware and coded via C++. Rover with obstacle detection and auto steering.

Internships

Axis Securities Ltd. |(May-July 2024)
Information security internship where I was involved in red teaming, audit and penetration testing. Used BurpSuite, Kali Linux, Frida, Metasploit, NMAP, Bugs found in Zomato, SaveEat, AxisOpen. **Recognised by Zomato for bug discovery.**

Bandhan Life | (May-July 2025)
Artificial Intelligence and data analysis summer intern. Used a wide array of data to develop customer targeting and client service machine learning systems by developing agentic AI.

Co-Founder @ Mindfully
A Non-Profit Social Venture Funded by New York-based Resolution Project focused on providing accessible nutrition and Mental Health Assistance to children and Teenagers.

Maths and English at St. Catherine of Sienna School and Orphanage| (May-June 2023)
Provided English, maths and reading lessons and assistance.

Delegation of India at HarvardWorldMUN
Part of the Indian delegation to represent at a global level at HarvardWorldMUN, with more than 100 countries.

Certifications & Publications

University of Washington Machine Learning (2024)
IBM Data Analytics with Python
Published Study Guides on various Geopolitical and Global policy topics via MumbaiMUN and IIT Bombay

CORE SKILLS

Technical Skills: Penetration Testing (Frida, MetaSploit, Kali Linux) |BurpSuite|Red Teaming |AI Programming (TensorFlow, PyTorch, Keras) |Java|C++|Python|App Development (Kotlin and Jetpack Compose)|Arduino and Microcontrollers|Tableau|Excel|Deep Research and analysis|Spring Boot|SQL|

Soft Skills: Team Worker|Language|Speech| Debate|Diplomacy|Global Policy Making|Negotiations|Leadership|Decision Making|

Achievements and Positions of Responsibility

Resolution Fellowship and seed funding winner 2024 from the New York-based Resolution Project
Won and received **diplomatic honours** at ECOFIN **Harvard WorldMUN** Manila 2025 as a part of the **delegation of India**
College Finalist Smart India Hackathon 2024
Won and chaired at several MUN Conferences all over the world, including IIT Bombay, Mumbai MUN, and NMIMS Shirpur
Head of Research and Development at MUNSociety, MPSTME. Organised MumbaiMUN, hosting more than 500 students. Lead a group of 15 executives. Held a debate and diplomacy workshop.
Vice Chair and Executive Board at IIT Bombay Techfest 2024
App Development Team at Google Developer Student Club 2023