

# Mayank Manchanda

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## Education

### Delhi Technological University

Bachelor of Technology in Computer Science(CSE) (Currently in Second year)

August 2023 - May 2027

Cumulative CGPA: **9.15/10.00**

### Summer Fields School

High School

March 2009 - March 2023

Grade XII: **93.8%**, Grade X: **97.49%**

## Technical Skills

- **Languages:** C++, Typescript, JavaScript, Python, Dart.
- **Technologies:** Next JS, React JS, Node JS, Express JS, Django, Flutter, MongoDB, Postgresql, Docker, GitHub, Amazon Web Services (AWS), Figma.
- **Concepts:** Machine Learning, Large Language Models (LLMs), Blockchain, Web3.0, Git, Cloud Computing, Linux, API.
- **Relevant Coursework:** Data Structures and Algorithms (C++), Software Engineering, Operating Systems, Object Oriented Programming, Database Management System, Computer Networks, Computer Architecture, Probability and Statistics.

## Experience

### NITI Aayog

Research Internship under Science and Technology Vertical ([Certificate](#))

December 2024-January 2025  
On-Site (Niti Bhawan, New Delhi)

- Played a key role in building the **R & D portal** as a part of plan by PMO India.
- Conducted research and identified suitable areas to set up S&T hubs in India. My listed draft added more than **5** significant cities to their final report. Evaluated various funding schemes under the FOF project of the Indian Government. Studied about Horizon Europe's 96 billion € distribution and impact in their deeptech sector.
- Authored a report on using ML to enhance economic policy analysis, showing superior analytics for datasets over  $10^{30}$  1030 entries.

### Teachnook

Robotics Training and Internship ([Certificate](#))

November 2023 – January 2024

Remote

- Successfully completed a 12-week training program focusing on **Arduino** and various other microcontrollers and sensors.
- Deployed 5+ Arduino-based projects based on Arduino and ESP8266(WIFI Module).

## Projects

### RepHelp | <https://rephelp.netlify.app/>

[GitHub](#)

Next JS 13.4, React JS, Appwrite, Tailwind CSS, Typescript, Twilio, Rapi4AI OCR, and more.

- **Developed a high-efficiency reception management platform** with seamless verifications, reducing wait time by about 35% and integrated advanced OCR scanning.
- Automated data entry from various national and international IDs. Further utilized Appwrite database to handle over 75,000 users.

### Crypt Beings | <https://cryptbeings-apk.vercel.app/>

[GitHub](#)

Web3.0, Blockchain, Flutter, Firebase, Firebase Authentication, Dart, Ethereum, Solana and more.

- Engineered responsive multi platform flutter app, sleek UI, secure user authentication using Firebase, including fingerprint.
- **Wallet Functionality:** Enabled users to create and manage wallets on Ethereum and Solana blockchains, with wallet data securely stored in Firebase.
- Planned updates to introduce a proprietary blockchain, support for additional tokens and NFTs, as well as transaction capabilities between wallets.

### Int-O-view | <https://int-o-view.vercel.app/>

[GitHub](#)

React.js, Express Js, Node.js, Machine Learning, JavaScript, python, large language models (LLMs), Llama model, JWT, TTS and more.

- Constructed an AI-powered interview platform using advanced LLMs that simulates real interview scenarios using user's **resumes and conversations** finally provides personalized feedback, and insightful user dashboard. (Collaboration Project with a team of 5 developers).
- Additionally, it could streamline the recruitment process for companies by offering analytics and candidate insights, making hiring more efficient.

### Coverage Determination

Image Segmentation, Tensorflow, Scikit-learn

- Performed multivariate Time-Series forecasting on a Cloud Coverage Dataset. Utilized Transformer, Residual Modeling, **RNN models**, achieved a good **R1** score.
- Crafted models to predict cloud coverage for **various** intervals training on **4+ hours** of historical data.

### Spotify Clone | <https://spotify-clone-ivory.vercel.app/>

[GitHub](#)

NextJS 13.4, React.js, Stripe, Supabase, PostgreSQL, Tailwind CSS, JavaScript

- **Architected and implemented a full-featured Spotify clone**, leveraging **Next.js** and **Tailwind CSS** for responsiveness.
- **Integrated Supabase** as a SQL database, used Stripe for payments achieving a 99% uptime and enhanced performance and scalability.

## Achievements

- Contest Ratings - **Specialist** at [Codeforces\(1415\)](#) , **Knight** at [Leetcode\(1864\)](#) , **3 Star** at [CodeChef\(1606\)](#) , **Brown** At [AtCoder\(793\)](#).
- Finalist among the top 10 out of the 500+ teams at Brainwave hackathon.
- Selected at the Internal Round of Smart India Hackathon (SIH-2024).

## Certificates

- Python Assessment ([HackerRank](#)), Mentoring underprivileged children ([NSSS Foundation](#)), Software Engineering Job Simulation (Forage ([JP Morgan Chase](#))).

## Social Engagements

- **Member:** at GDSC (Google Developers Student Club) open-source team, IEEE-DTU.
- **Volunteer:** under NSSS Foundation (Mentoring Underprivileged Children).