Mayank Manchanda

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https://mayank-manchanda.vercel.app

Education

Delhi Technological University   August 2023 - May 2027
*Bachelor of Technology in **Computer Science(CSE)** (Currently in Second year)*   *Cumulative C*GPA: **9.15**/10.00
Summer Fields School   March 2009 - March 2023
High School   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   December 2024-January 2025
Research Internship under Science and Technology Vertical ([Certificate](#))   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 $103010^{30}1030$ entries.

Teachnook   November 2023 – January 2024
Robotics Training and Internship ([Certificate](#))   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 **i**ntegrated 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](#)(**1419**) , Knight at [Leetcode](#)(**1866**), 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).