

Himanshu

Student | Aspiring AI Researcher | Coding Enthusiast | Writer
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EDUCATION

1. Bachelor of Technology in Computer Science Engineering (CSE)
National Institute of Technology, Kurukshetra, India
11/2022 - Present
2. 11th and 12th
Government Senior Secondary School, Nandgaon, Haryana, India
05/2020 - 06/2022

EXPERIENCE

Project Manager - Excelerate (08/2023 - 09/2023)

- Successfully managed a team of 6 to plan and conduct a Global Educational event by Saint Louis University with a budget of USD 30,000.
- Prepared RACI Matrix, Risk Register, Budget Planning, and Allotment.
- Consistently met and exceeded project deadlines.

SKILLS

Programming Languages

Python, C/C++, Rust, Java, JavaScript, Flutter

Frameworks

React + Vite, Pandas, NumPy, TensorFlow, Scikit-Learn

Version Control

Git/GitHub

Skills

Problem Solving, Teamwork, Communication

PERSONAL PROJECTS

1. Medical GPT (08/2023)
 - Developed LLM Models to provide accurate medical advice based on trained data from medical books.
 - Most of the code is closed source due to NDA.
[GitHub](#)
2. FinTracker (06/2023 - 07/2023)
 - Created a mobile application using Flutter to track monthly expenses and stored data in a local SQLite database.
 - Implemented features to organize tasks in different accounts and categories, and set limits to categories.
[GitHub](#)
3. OS DEMO (05/2023 - 07/2023)
 - Developed a demo Operating System kernel from scratch using assembly and C language.

- Utilized knowledge of operating systems and bootloaders.
- Currently researching to further enhance the OS.

[GitHub](#)

4. SeniorConnect (07/2023 - 08/2023)

- Developed a mobile application to facilitate connections between seniors and juniors, allowing them to share projects and discuss ideas.
- Future plans include adding a community tab, message tab, and improving backend connectivity.
- Technology used: Flutter, Firebase.

5. E-Waste Facility Locator (Ongoing)

- Working on a project for Smart India Hackathon, aimed at locating E-waste facilities, scheduling E-waste pickups, and rewarding users based on precious metal content.

[GitHub](#) | [Deployment](#)

6. COX3-ML-Model (05/2023)

- Developed a machine learning model to predict if a patient has Covid or not.
- Trained on 2 lakh+ images with an accuracy of 0.85.

[GitHub](#)

OPEN SOURCE ORGANIZATIONS

1. LearnTrinity

- A community-driven non-profit organization aimed at empowering developers and fostering an inclusive developer community.
- npm package available for easy template integration.

2. CodeingHive

- An open-source platform similar to CodePen.io with multi-language support.

VIRTUAL INTERNSHIPS & CERTIFICATIONS

1. WALMART Certified ADVANCED SOFTWARE ENGINEER (07/2023)

- Completed the Advanced Software Engineering Job Simulation.
- Developed a novel version of a heap data structure in Java for Walmart's shipping department.
- Designed a UML class diagram for a data processor.
- Created an entity relationship diagram for a new database.
- [GitHub](#)

2. JP MORGAN CHASE & CO Certified SOFTWARE ENGINEER (05/2023)

- Set up a local development environment.
- Fixed broken files in the repository.
- Generated a live graph using JPMorgan Chase's open source library, Perspective.

3. British Airways Data Science Job Simulation (05/2023)

- Completed a simulation focusing on how data science is critical for British Airways' success.
- Scraped and analyzed customer review data.
- Built a predictive model to understand factors influencing buying behavior.

4. Cybersecurity Course

(ISC)2

07/2023 - 08/2023

Courses: Pre-assessment for cybersecurity: 83%

Learning basics of cybersecurity to develop more secure applications.

PROGRESS

5. Machine Learning using Python by freeCodeCamp (05/2023)

- Developed an ML model with a high accuracy rate, leveraging Python and advanced techniques.

[GitHub](#)

LANGUAGES

- English: Full Professional Proficiency
- Hindi: Native or Bilingual Proficiency
- Japanese: Basic

INTERESTS

- Reading Books
- Learning more about neural networks and taking relevant courses

ACHIEVEMENTS

- AIR 15008 in JEE Mains out of 1 million+ applicants
- Two-time national Gold Medalist in Basketball

RESEARCH

1. Protecting Data From Quantum Computers: Quantum-Proof Encryption

- Research exploring Space Lattice encryption algorithms to enhance encryption techniques in response to the growing threat of quantum computing.
- DOI: 10.13140/RG.2.2.30024.29448

[ResearchGate Profile](#)