

Harsh Pratap Singh

185E | Sec. 39, Gurugram 122003
harsh.pratap9904@gmail.com | (+91) 8077448501
[linkedin.com/in/t6harsh](https://www.linkedin.com/in/t6harsh)

Education

Indian Institute of Technology

Bachelor of Science Data Science and Programming

- Project GPA: 9.25
- Overall GPA: 7.56

Madras

Sept. 2022 - Aug. 2026

IFTM University

Bachelor of Science Maths

- GPA: 7.52

Moradabad

July 2022 - June 2025

Project Experience

System Threat Forecasting

Jan. 2025

Solo Project, IIT Madras

- Developed end-to-end ML models to predict malware infections using diverse system telemetry data.
- Optimized overall model performance through advanced feature engineering, PCA and dimensionality reduction
- Trained & tuned models using LightGBM, XGBoost, and Scikit-learn pipelines..
- Achieved 0.63 accuracy, graded A in IITM DS course.

Sales Forecasting & Inventory Optimization

Sept. 2024

Solo Project, IIT Madras

- Forecasted sales for a local grocery store using historical data and statistical analysis.
- Optimized inventory by identifying top-performing and underperforming products.
- Delivered Dashboard (Google Sheets) and reports (Google Docs) that improved turnover and reduced overstock.

PocketSmart – Gamified Financial Literacy App

May 2025 - Aug. 2025

Project Manager, IIT Madras

- Directed a 7-member team to design and build a gamified financial literacy app for children (ages 8–14).
- Integrated AI chatbot feature enabling kids to ask and clarify doubts.
- Coordinated milestones, ensured delivery on time, and contributed to both frontend (Vue.js) and backend (Flask, SQL).

Leadership & Activities

Team Leader – Strategies for Professional Growth Project

May 2025 - Aug. 2025

Indian Institute of technology, Madras

- Led a 5-member team to research and present communication & listening strategies.
- Delegated tasks and delivered presentation with positive faculty feedback.

Class Representative

July 2022 - June. 2024

IFTM University

- Represented 140+ students; communicated updates between faculty and classmates.
- Improved collaboration and streamlined academic coordination.

PassMeter – Grade Calculator for IITM BS Students

April 2025

- Launched a utility app with 380+ views, 210+ users, and 1,100+ interactions.
- Addressed a student pain point: IITM BS final grades take a week to publish and vary by course-specific formulas.
- Simplified academic planning by automating SGPA/CGPA calculation with dynamic input fields per subject.
- Enhanced engagement with witty, course-specific feedback comments.

Technical Skills

- **Languages & Libraries:** Python, SQL, Scikit-learn, Pandas, NumPy, LightGBM, XGBoost
- **Techniques:** Classification, Forecasting, Feature Engineering, Hyperparameter Tuning, PCA
- **Visualization:** Matplotlib, Seaborn, Google Sheets (dashboards)
- **Web Dev (supporting):** **Vue.js, Flask, HTML, CSS, SQL**
- **Tools:** Git, Docker, JIRA, Notion, Figma
- **Soft Skills:** Team Leadership, Documentation, Communication, Analytical Thinking