Hardik Sharma

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EDUCATION

Indian Institute of Technology, Madras — Chennai, TN
Bachelor of Science in Data Science and Applications (Jan. 2021 – Jan. 2025) — *CGPA: 7.65*

Indira Gandhi National Open University — Delhi, India
Masters of Computer Applications (Aug. 2023 – July 2025) — *CGPA: Nil*

Minerva College of Arts and Science — Indora, HP
Bachelors of Computer Applications (Aug. 2020 – July 2023) — *CGPA: 8.36*

EXPERIENCE

Summer Research Internship — May 2023 – July 2023
National Institute of Technology — *Hamirpur, HP*

- Mentored under **Prof. Jyoti Srivastava** of Computer Science Department and learnt various **NLP methods**.
- Worked on **BBC News Dataset Text Summarization** using **extractive summarization method**.
- Summarized News text with a sample **ROUGE1 score of 78%** and **ROUGE2 score of 74%** using a **Graph-based model**.

PROJECTS

Grocery Store | *Python, Flask, SQLAlchemy, SQLite, HTML*

- Developed a web application using **Flask** serving REST APIs.
- Used **Jinja2** templates for rendering HTML and employed **SQLite** for data management.
- Integrated **Bootstrap** for polished UI with pre-designed components.
- Developed a **Flask** web app for routing, backend logic, and **RESTful APIs.**

Movie Sentiment Prediction | *Machine Learning, Data Analysis*

- Secured Rank of 97 out of 977 participants and achieving a **F1 score of 0.832** .
- Used Machine Learning for classification, with a **Stacking Classifier**.
- Logistic Regression, Random Forest, GradientBoost, and AdaBoost with Quantile Data Transformation using **5-Fold Cross-Validation**.
- Employed K-Nearest Neighbors, Decision Tree, Ridge, Naive Bayes, LightBGM.

Capstone Project - Business Data Mgt | Data Analysis

- Analyzed **4-week sales trends 20% increase** from **week 1** to **week 3**, followed by a **15% decrease** in **week 4**.
- Found **80% of sales** from **6 top-performing products**, leading to inventory and promotion optimization.
- Calculated **15% profit increase** per **SKU**, demonstrating revenue potential.
- Advised students to start early, use accessible data sources, and value hands-on experience.

APPRECIATIONS

- Best Capstone Project Certificate of IIT Madras

MOOCs

- Short Term Course on Internet of Things on campus from IIT Mandi
- Elements of AI Certificate from the University of Helsinki
- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms of Coursera

TECHNICAL SKILLS

Languages: Java, Python, SQL (Postgres), JavaScript, HTML/CSS, R
Frameworks: React, Vue.js, Flask, WordPress, Material-UI, FastAPI
Libraries: pandas, NumPy, Matplotlib, Scikitlearn

CO-CURRICULAR

- Editorial Wing Member Adhyay Civil Services Group IITM