YASH SINGHAL

Delhi, India

+91 8920928636 ⋄ yash2492003@gmail.com

linkedin.com/in/yashs24 ⋄ github.com/24yash ⋄ 24yash.github.io

EDUCATION

B.Tech. in Information Technology and Engineering	Maharaja Agrasen Institute of Technology (GGSIPU)	CGPA: 8.83	2021-2025
B.S. in Data Science and Applications	Indian Institute of Technology Madras (IITM)	CGPA: 8.59	2021-2025
CBSE (XII)	Vishal Bharti Public School	93.2%	2021

EXPERIENCE

Data Analytics Intern   July 2024 – August 2024
Punjab National Bank, MISD Department
- Developed an intelligent **Car Loan Application system using LLMs** for automating user information gathering and function/API calling with existing systems. Dynamically populated PDF forms and containerized with Docker for scalable deployment, significantly streamlining the loan application process.
- Utilized open-source Large Language Models locally for NLP tasks such as Summarizing large internal documents.

Application Development Project Mentor   Oct 2023 – June 2024
Indian Institute of Technology Madras
- Conducted intensive **bootcamps** on application development, teaching students in building complex web applications like a feature-rich social media webapp with CRUD operations and RESTful APIs.
- Mentored and guided a cohort of students through their academic projects, including development of a robust music streaming platform, resulting in **85%** of mentees achieving excellent grades.

PROJECTS

QuickML: Automated Machine Learning Platform   Demo | Github
- Built a Web App to **automate machine learning** workflows with scikit-learn.
- Enabled data preprocessing, model selection, and training through a user-friendly interface.
- Provided automated predictions on user-uploaded test datasets, enhancing **accessibility** to machine learning for non-technical users.

Show Time: Movie Ticket Booking Web Application   Demo | Github
- Spearheaded the development using Flask and Vue.js, featuring **CRUD** operations for theatre and movie management.
- Implemented admin privileges, user authentication, secure ticket booking, and rating system.
- Enhanced performance by implementing **caching** resulting in a performance improvement of **96.51%** with Redis and automated tasks using Celery.

Data-Driven Financial Analysis for a Vegetable Business   Presentation | Github
- Collected and analysed 31 days of transactional data of a local unorganised vegetable business: Gained financial insights and determined ideal pricing margins, resulting in a potential profit increase of **₹4,581.**
- Employed **time-series** analysis, statistical computations, and **regression** modelling: Formulated effective strategies that enhanced pricing and operational efficiency, leading to a clearer understanding of daily profitability.
- Developed Credit management Practices to minimize financial risks based on creditor data patterns.

SKILLS

- **Programming Languages & Tools:** C++, Python, JavaScript, SQL, Java, Git
- **Web Development:** HTML, CSS, Flask, Vue.js, Node.js, Bootstrap
- **Data Science & Machine Learning:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

ACHIEVEMENTS

- Ranked **1st** in KIMO's-Edge' 23 Competition (YHAATC).
- Solved over **500** Data Structures & Algorithms problems and achieved a Contest Rating of 1542 on LeetCode (leetcode.com/Yashcodes)
- Ranked **20th** out of 900+ participants in Kaggle's 'CrimeCast' competition organised by IITM.
- Active **Contributor** on Kaggle (kaggle.com/yashskaggle)