Aman Jain

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GITHUB || LINKED IN || LEETCODE

EDUCATION

B.TECH(Software Engineering)	2023-2027	Delhi Technological University, New Delhi	9.345
CBSE (Class XII)	2022	RPVV, Gandhi Nagar, Delhi-31	94.4%
CBSE (Class X)	2020	RSBV, Gandhi Nagar, Delhi-31	94.6%

INTERNSHIP

ML Research Intern | Machine Learning Research Lab, DTU   **June 2025 – Present**
- Conducting advanced research on action recognition in low-light environments on datasets ARIDv1.5 and Dark48.
- Aiming to achieve over 90% classification accuracy and >5 dB PSNR improvement over raw inputs.
- Implemented and evaluated 4+ state-of-the-art models for low-light image and video enhancement, including Dark Light, Zero-DCE, HVI-CIDNet, and DGAM, using PyTorch.

ACADEMIC PROJECTS

U&I Chat – Realtime Chat Application | LINK | MongoDB, Express.js, React.js, Node.js, Socket.io
- Architected a MERN-based real-time chat application using Socket.io for instant messaging, React.js for frontend UI, and Node.js, Express backend, achieving <200ms message delivery latency.
- Implemented secure user authentication, supporting 100% client-side route protection and personalized message history and upload image feature(<50KB).
- Deployed frontend and backend services using Render and MongoDB, ensuring high availability and scalability.

Snap Basket – Grocery App| LINK | React.js, Express.js, MongoDB, JWT, Tailwind CSS
- Crafted a full-stack grocery web application using the MERN stack, featuring 10+ functionalities such as login, product listing, real-time search filtering, order placement, and address handling.
- Built a dynamic cart system with live item quantity updates, subtotal calculations, and local Storage sync.
- Implemented secure login with JWT-based authentication and cookie-based session management for 100% protected user sessions, integrated with MongoDB Atlas, Render (deployment).

Twitter Sentiment Analysis | LINK | Python, Pandas, Scikit-learn, NLTK, Streamlit
- Built a sentiment classification model with 80%+ accuracy by NLTK & Scikit-learn on a dataset of 1.6M tweets.
- Engineered a data pipeline to stream live tweets via the Twitter API v2 with Bearer Token authentication to capture 100 tweets per minute, providing insights to identify the top 5 emerging positive/negative tweets of users - [DEMO].
- Benchmarked 4 ML models (Logistic Regression, XGBoost, SVM, Naive Bayes) and deployed a Streamlit dashboard.

ACADEMIC ACHIVEMENTS

- Maintained a 9.2+ CGPA across 3 consecutive semesters, consistently ranking in the Top 10 out of 200+ students in the Software Engineering department in DTU.
- Solved over 600+ problems across Leetcode, CodeChef, and GeeksforGeeks.
- Logged 2000+ GitHub commits through personal, academic, and research-based deep learning projects.
- Finalist for the offline round among the top 20 out of 1000+ teams in Code with DCG Hackathon – [PROJECT LINK].

TECHNICAL SKILLS

Languages	Frameworks/Libraries	Tools	Coursework
Python, C/C++, Java, HTML, JavaScript, Tailwind, Kotlin	Pandas, NumPy, MERN, Matplotlib, Scikit-Learn	Git, VS Code, Google Collab, Jupyter, Anaconda	DS, Algorithms, DBMS, OOPs, OS

POSITION OF RESPONSIBILITY

- **Corporate Head, LFC Cultural Fest Society, DTU**
  Spearheaded sponsorship acquisition by initiating partnerships, negotiating deals, forged corporate relationships and led a team of executives, ensuring financial support for the fest **Yuvaan**.
- Orchestrated logistics at major hackathons and events including **Character On Road** and **Smart India Hackathon** at DTU managing 1,000+ participants to ensure seamless event execution.