

Jaina Pal

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EDUCATION

Bachelor of Technology (B.Tech) - Artificial Intelligence and Machine Learning

2023 – 2027 | CGPA : 8.0

Indira Gandhi Delhi Technical University for Women, Delhi

CourseWork : Operating System, DBMS, Computer Networks, Data Structures, Machine Learning, Data Science

SKILLS

Programming Languages

C++, Python

Web Development

HTML, CSS, JavaScript, React

Tools

Git, GitHub, VS Code

PROJECTS

LLM From Scratch : Python, PyTorch, NumPy, pandas, matplotlib

06/2025 – present

- Implementing a transformer-based language model from scratch replicating GPT-2's decoder-only architecture.
- Developed core components including a custom **Byte Pair Encoding tokenizer**, **attention mechanism**, and data preprocessing pipeline.
- Currently building training loop and inference logic to enable toy-scale text generation and understand end to end LLM workflow.

Expense Tracker Web App : HTML, CSS, JS, LocalStorage

11/2024 – 12/2024

- Implemented core functionalities** including add/edit/delete entries, real-time total expense updates, and persistent data storage via browser LocalStorage.
- Integrated sorting filters** (by date and amount) and laid the foundation for future features like saving goals, dark mode, and user feedback.
- Outcome: Strengthened frontend skills** in DOM manipulation, local storage management, and UX-driven development.

News Aggregator : HTML, CSS, JS, RSS API (rss2json)

10/2024 – 10/2024

- Engineered a news application allowing users to browse and search the latest articles fetched from a live RSS feed.
- Integrated innovative features such as a "Load More" button and dark mode toggle, allowing for real-time article retrieval and enhancing user engagement.
- Outcome:** Strengthened skills in vanilla JavaScript, API integration, and UI state management while delivering a smooth, cross-platform user experience.

WORK EXPERIENCE

COE-AI Department IGDTUW | Python & ML Intern

06/2024 – 07/2024 | Delhi

- Designed machine learning models utilizing both supervised and unsupervised methods, leading to the successful identification of over 500 harmful comments from a dataset of 5000 social media entries during analysis sessions.
- Developed a **Suicidal Comments Detection** project that achieved **92% accuracy** in identifying harmful social media comments.
- Improved comment classification accuracy by implementing targeted feature selection strategies and refining model evaluation processes during iterative testing phases.

ACHEIVEMENT

Certificates

- Ranked in the top 10%ile out of 20,000 applicants in the ATF Stage 1 national competitive coding test.
- Led a project team in the Smart India Hackathon 2023, achieving shortlist status among over 2,000 competitors by presenting an innovative solution that demonstrated exceptional creativity and effective collaboration within tight deadlines.
- Spearheaded brainstorming sessions with teammates during the intense competition at Myntra Hackathon, resulting in three viable product concepts generated within just two days under tight submission timelines.

EXTRACURRICULAR ACTIVITIES

- Spearheaded a team of 10 student representatives, organized two major school events annually, and elevated communication channels between students and staff to streamline feedback collection by over 30%.
- Represented my school at the zonal level, demonstrating teamwork, agility, and perseverance.