PRERNA SINGH

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EDUCATION

Degree	Institute	Score	Year
B.Tech CSE	Indira Gandhi Delhi Technical University for Women	8.36	2021 − 2025
CBSE Senior Secondary	Army Public School, Delhi Cantt	95.40%	2021
CBSE Secondary	Army Public School, Delhi Cantt	97.00%	2019

TECHNICAL SKILLS

Languages: C++, C
Technologies/Frameworks: Machine Learning, MERN (MongoDB, Express.js, React, Node.js), Flask, Git

PROJECTS

EduSangam | MERN, Machine Learning   **Dec 2023**
- Built a full-stack website in a team of 6 to revolutionize education by blending traditional and online learning. Leveraged technology, real-time data, and personalized approaches to enhance individual student performance and address challenges in larger classroom settings.
- Worked on **integrating ML models with the website using Flask**. Developed a chatbot and collaborated on developing accurate ML algorithms.

LinkedIn Post Recommender System | Deep Learning   **May 2023**
- Developed a highly effective post recommender system for LinkedIn with **BERT**, a **Transformer** model, achieving an average accuracy of **97%**.

File Friend | LangChain Framework   **Jun 2023**
- Deployed a conversational A.I. chat bot in a team of 2 to generate answers to user's question about their uploaded PDF or CSV file using **LangChain**, having more than **95%** accuracy.
- Contributed to generating embedding space of PDF files and retrieving answers.

WORK EXPERIENCE

Prodigal AI | Research Intern   **Mar 2023 - July 2023**
- Drove research and development of groundbreaking projects in a team of 8, leveraging cutting-edge technologies like **LangChain, GPT-4** to deliver innovative solutions.
- Led the development of "ZSearch", an advanced chatbot utilising **Large Language Models & conversational AI**, resulting in impactful real-time cloud insights. Presented research findings at ICRET 2023.

PUBLICATIONS

Evaluating BERT and GPT-2 Models for Personalised LinkedIn Post Recommendation

- Published in IEEE Xplore as part of the Proceedings for the 14th International Conference on Computing, Communication, and Networking Technologies 2023 (ICCCNT). **DOI**-10.1109/ICCCNT56998.2023.10307957

ACHIEVEMENTS

Smart India Hackathon | Grand Finalist   **19-20th Dec 2023**
- Secured a spot in the Grand Finale of SIH 2023, the world's largest open innovation model, with a selection rate of 2.87% from among 44,642 participating teams.

Grace Hopper Celebration Student Scholarship | Scholar   **Jun 2023 - Sept 2023**
Tripsero Ideathon by Innerve | Winner   **Sept 2022**
LeanIn Hacks 4.0 | Finalist   **Feb 2023**
Ideate2sustain Ideathon by Innerve & CSD | 1st Runner Up   **Sept 2022**
Erudite Ideathon by The Arc & INNERVE | 4th position   **Sept 2022**

COMMUNITY INVOLVEMENT

Google Developer Students Club, IGDTUW | Interview Preparation Mentor   **Aug 2023 - Present**
- Guiding 40 students through intensive interview preparation, delivering lectures on Data Structures, Algorithms, Computer Science Fundamentals, and conducting Mock Interviews.