Pratham Shekhawat

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EDUCATION

IIIT Delhi ,New Delhi   July. 2023 – present
Masters of Technology - Computer Science   CGPA :- 7.89

The Technological Institute of Textile & Sciences ,Bhiwani   Aug. 2018 – July 2022
Bachelor of Technology - Computer Science   CGPA :- 8.2

EXPERIENCE

Research Intern   Jan 2024 – Dec 2024
Complex Systems Laboratory, IIIT Delhi | Live Link   *New Delhi, India*

- Designed and developed the **Script** to create a scalable **MongoDB database** from a CSV dataset of **11,320 rows**, implementing an efficient allergen schema.
- Integrated ML model for sequence prediction, achieving an **accuracy of 96.87%**, by leveraging the **Stack Model**. Developed **RESTful APIs** to streamline predictions and data handling.
- Led the development of the **frontend**, ensuring a smooth and responsive **user interface**.

PROJECTS

Healthcare Appointment System | *Flask, MongoDB, ReactJS*   Oct 2024 – Jan 2025
- Developed a web application for booking and managing healthcare appointments with role-based authentication (patients, doctors, admins) using **JWT**, achieving a **95%** user authentication success rate.
- Designed and implemented **RESTful APIs** for scalable backend services, ensuring an average response time of less than **300ms** across all endpoints.
- Built a responsive **frontend** to enable real-time appointment tracking and role-specific dashboards, improving user interaction efficiency by **40%**.
- Leveraged **MongoDB** for efficient and scalable data storage.

Customer Reviews Summarization | *Python, Hugging Face, GPT-2*   Mar 2024 – May 2024
- Fine-tuned the **GPT-2 model** using Amazon's custom reviews dataset for accurate and concise review summarization.
- Preprocessed and cleaned over **500,000 reviews**, ensuring high-quality input for training.

Real-time Chat Application | Source Code   Aug 2023 – Dec 2023
- Built a **real-time messaging web app** using **React.js, Node.js, and Socket.IO**.
- Integrated **Firebase authentication** and secure messaging with **JWT**.
- Optimized WebSockets handling to support **100+ concurrent users** with low latency.
- Added features like typing indicators and media sharing to enhance user experience.

TECHNICAL SKILLS

Expertise Area: DSA, DBMS, OOPS, OS
Languages: Java, Python, C/C++, SQL , HTML/CSS
Tools and Technologies: React, Node.js, Flask, Git/Github, Virtual Machine, VS Code ,MS Excel, MongoDB
Technical Electives: Graduate Algorithms, Research Methods, Information Retrieval, Artificial Intelligence

POSITIONS OF RESPONSIBILITY

Teaching Assistant at IIITD:
- **Introduction to Programming**   (Aug 2023 – Dec 2023)
- **Analysis and Design of Algorithms**   (Jan 2024 – May 2024)
- **Computer Networks**   (Aug 2024 – Dec 2024)

ACHIEVEMENTS

- Qualified **GATE CSE 2023** Exam.
- Achieved the **LeetCode** 100 Badge in 2024 for problem-solving over 100 days.