

# Pratham Shekhawat

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## EDUCATION

### IIIT Delhi

*M.Tech in Computer Science Engineering*

July. 2023 – present

CGPA :- 7.89

### The Technological Institute of Textile & Sciences,Bhiwani

*B.Tech in Computer Science Engineering*

Aug. 2018 – July 2022

CGPA :- 8.2

## EXPERIENCE

### Research Intern

*Complex Systems Laboratory, IIIT Delhi | [Live Link](#)*

June 2024 – Nov 2024

*New Delhi, India*

- Developed a **MongoDB** database from 11,320 rows data, ensuring efficient storage and retrieval.
- Integrated a **Stack Model** for sequence prediction, achieving **96.87%** accuracy via **RESTful APIs**, improving API response time by 40%.
- Built a **responsive frontend** to enhance user experience and streamline allergen research workflows.

## PROJECTS

### Healthcare Appointment System | *Flask, MongoDB, ReactJS*

- Developed a web app for healthcare appointments with role-based authentication (**JWT**), achieving **95%** authentication success.
- Designed **RESTful APIs** for a scalable backend, ensuring an average response time below **300ms**.
- Built a responsive **frontend** for real-time tracking and role-specific dashboards, improving user efficiency by **40%**.
- Leveraged **MongoDB** for efficient and scalable data storage.

### Customer Reviews Summarization | *Python, Hugging Face, GPT-2*

- 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

- Designed a **real-time messaging web app** using **React.js, Node.js, and Socket.IO**.
- Merged **Firebase** authentication and secure messaging with **JWT**.
- Optimized WebSockets handling to support **100+ concurrent users** with low latency.
- Added features like media sharing to enhance user experience.

## TECHNICAL SKILLS

**Expertise Area:** DSA, DBMS, OOPS, OS, CN

**Languages:** Python, java, C/C++, SQL , HTML/CSS

**Tools and Technologies:** React, Node.js, Flask, Git/Github, Virtual Machine, VS Code, MongoDB, Postman

**Technical Electives:** Graduate Algorithms, Research Methods, Information Retrieval, Artificial Intelligence

## POSITIONS OF RESPONSIBILITY

### Teaching Assistant at IIITD

Aug 2023 – Dec 2024

- Assisted in tutorials, grading, and invigilation for **IP, Analysis and Design of Algorithms, and CN**.

### Member, Orators Society at TIT&S

Oct 2018 – Dec 2019

- Helped organize college events and public speaking competitions.

## ACHIEVEMENTS

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