

# SHUBHAM KUMAR

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## Education

- Indian Institute of Engineering Science and Technology, Shibpur  
B.Tech in Electronics and Telecommunication (CGPA: 7.62/10)

West Bengal, India  
Dec 2021 – Jul 2025

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## Experience

### Machine Learning Intern

AddAuto Technology Pvt. Ltd. | Howrah, WestBengal

June 2024 – July 2024

- Developed a sentiment analysis model using the IMDb dataset to predict positive and negative sentiments, achieving 84% accuracy.
  - Utilized Python libraries (Pandas, Numpy, Scikit-learn) for data cleaning, feature extraction, and model training.
  - Implemented data visualization with Matplotlib and Seaborn to analyze sentiment trends.
  - Integrated the model into a Flask web interface for real-time sentiment prediction.
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## Achievements

- Solved 375+ Questions of different difficulties level on Leetcode platform. [[Leetcode Link](#)]
  - Leetcode Max Rating: 1550+
  - ZS Associates Campus Beat Challenge: Ranked in the Top 25 out of 1,000+ teams.
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## Projects

### EduVerse: An Edtech Platform [[Github Link](#)] [[Video Link](#)]

A comprehensive platform enabling users to create, access, and evaluate educational materials.

- Interactive Learning:** Connects students and instructors globally.
- User Authentication:** Secure sign-up, login, **OTP verification**, and password recovery.
- Course Management:** Instructors can create/manage courses; students can view, rate, and purchase courses.
- Payment Integration:** Supports secure payments via **Razorpay**.
- Media Management:** Utilized Cloudinary for media storage; responsive design with detailed course metrics.
- Technologies:** Front-end: **ReactJS, CSS, Tailwind, Redux**; Back-end: **NodeJS, ExpressJS, MongoDB**.

### ChatVox [[Github Link](#)] [[Video Link](#)]

Full-stack chat application with real-time communication and secure data storage.

- Built with **Socket.io** for real-time messaging and **MongoDB** for encrypted data storage.
- Developed a **mobile-responsive UI** for seamless experience across devices.
- Integrated **bcrypt.js** for secure password encryption and data protection.
- Tech stack: **ReactJS, Node.js, Express.js, MongoDB**.

### CPU Scheduling Algorithms [[Github Link](#)]

Implemented CPU scheduling algorithms (FCFS, SJF, RR, SJRF) in C++ using object-oriented principles.

- Optimized performance by calculating **average turnaround** and **waiting times**.
  - Generated detailed **process tables** with key metrics (arrival time, burst time, response time) for analysis.
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## Technical Skills

**Languages:** C++, Python, Structured Query Language (SQL).

**Tools and Technology:** MySQL, ReactJS, NodeJS, MongoDB, Git and Github.

**Fundamentals:** Programming and Data Structures, Operating Systems, Object-Oriented Programming, Database Management Systems

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## Language Proficiency

**English:** Fluent, Professional Working Proficiency

**Hindi:** Native/Bilingual