

# Sparsh Tyagi

✉ [sparshtyagi630@gmail.com](mailto:sparshtyagi630@gmail.com) ☎ +91-9548546018 🌐 [sparsh-Tyagi01](https://github.com/sparsh-Tyagi01) 🌐 [sparsh-tyagi](https://www.linkedin.com/in/sparsh-tyagi)

## EDUCATION

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**KIET Group of Institutions, Muradnagar, UP**

*B.Tech in Computer Science and Engineering*

CGPA: 8.7

*July 2028 (Expected)*

**Krishna Vidya Niketan Public School, Muradnagar**

Class 12<sup>th</sup>: 92%

*2023 – 2024*

**C.S.H.P Memorial School, Rajnagar Extension**

Class 10<sup>th</sup>: 93.2%

*2022 – 2023*

## PROJECTS

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**NeoStream – Full-Stack OTT Streaming Platform**

*Frontend + Backend — July 2025*

- Built a full-stack OTT platform using the **MERN stack**, enabling users to browse and stream movies with a clean and responsive UI.
- Developed dynamic **Movie Detail Pages** displaying metadata, trailer, and category-based recommendations (Top Picks, Trending, etc.).
- Created an **Admin Dashboard** with features like movie upload (video + thumbnail), delete functionality, and real-time platform statistics (total users, total movies).
- Integrated **Cloudinary** for efficient media (image/video) uploads and streaming optimization.
- Implemented secure **JWT-based authentication** with role-based access for admins and regular users.
- Designed scalable REST APIs using **Express.js** and connected them to **MongoDB** for persistent movie and user data storage.
- Used **Tailwind CSS** to create a fully responsive and modern user interface across devices.
- **Tech Stack:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Cloudinary .

**AI Notes Summarizer – AI-Powered Text Summarization** *WebD using AI Integration — July 2025*

- Built a full-stack web app that summarizes long-form text into concise bullet points using **Hugging Face transformer models**.
- Integrated pre-trained **NLP models** from Hugging Face (e.g., BART, T5) via API to generate high-quality summaries for academic and professional notes.
- Developed a sleek, responsive UI with **React.js** and **Tailwind CSS**, providing a seamless user experience across devices.
- Designed and implemented a secure backend using **Node.js** and **Express.js** to handle summarization requests and communicate with Hugging Face APIs.
- **Tech Stack:** React.js, Node.js, Express.js, Hugging Face Transformers, Tailwind CSS

**Blabber – Full-Stack Microblogging Platform**

*Frontend + Backend — April 2025*

- Developed a full-stack microblogging platform where users can **create and view posts** in real-time.
- Designed an intuitive **frontend using Next.js** and **Tailwind CSS**, enabling smooth navigation and post interaction.
- Built a high-performance **backend with FastAPI**, featuring RESTful APIs for handling posts, users, and data validation.

- Integrated **Postgresql** for scalable storage of user-generated content, ensuring fast retrieval and filtering of posts.
- Implemented **JWT-based authentication** to manage secure user login and protected post actions.
- Ensured separation of concerns by maintaining **independent frontend and backend repositories**, promoting clean architecture and easier deployment.
- **Tech Stack:** Next.js, FastAPI, Postgresql, Tailwind CSS

## Voxta – Real-Time Chat Application (No Database)

*Frontend + Backend — May 2025*

- Developed a **real-time chat application** where users can exchange messages instantly using **WebSocket communication**.
- Used **Next.js** for building a responsive and dynamic frontend, and **Express.js** as a lightweight backend WebSocket server.
- Implemented **native WebSocket protocol** on the Express server to broadcast messages to all connected clients without a database.
- Focused on in-memory state and connection-based logic to build a **stateless, fast-performing chat system**.
- **Tech Stack:** Next.js, Express.js, WebSocket, Tailwind CSS

## CERTIFICATIONS

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- Basics of Python – Infosys Springboard
- Introduction to Artificial Intelligence – LinkedIn Learning
- Code Veda hackathon - 2025

## SKILLS

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**Languages & Web:** C++, HTML, CSS, JavaScript, Node.js

**Database:** MongoDB

**Tools & Libraries:** ReactJs, NextJs, ExpressJs, FastAPI, Pandas, NumPy, Seaborn, Sklearn, Git

**Other:** Data Structures, Problem Solving