




# KAUSTUBH PANDEY

 [github.com/kaustubh187](https://github.com/kaustubh187)  [linkedin.com/in/kaustubh-pandey-27155a1b8/](https://linkedin.com/in/kaustubh-pandey-27155a1b8/)  [kaustubh.pandey528491@gmail.com](mailto:kaustubh.pandey528491@gmail.com)

## EDUCATION

**Jaypee Institute of Information Technology, Noida**  
*Integrated M.Tech in Computer Science and Engineering*

**Sep. 2020 - May 2025**  
*Current CGPA: 7.9/10*

**Vishwa Bharati Public School**  
*Noida*

**2008 - 2020**  
*Grade 12 CBSE: 93.6%*

## SKILLS

**Languages:** C/C++, Python, Java, HTML/CSS, SQL, Go  
**Database:** MySQL, PostgreSQL, MongoDB, Firestore  
**Tools/Frameworks:** Flask, Django, SpringBoot, Docker, Git, React  
**Cloud:** AWS EC2, Lambda, S3; GCP: Compute Engine, GKE



## PROJECTS

**SoundSync** | *Flask, React, PostgreSQL, JWT Authorization, Machine Learning [Link](#)*

**Feb. 2024**

- **Developed entire back-end of a social media application** that recommends friends based on an individual's listening history on Spotify.
- **Clustered similar users** together using a user-feature matrix consisting of 5 audio-features of the most listened songs for each user. Recommended similar users **using K means clustering and cosine similarity**.
- **Developed Flask API for the social media website** containing endpoints for: Login, Registration, Likes, Comments, Follow Requests, Friend Recommendations and **then connected these endpoints on the React app** and secured the API **using JWT tokens**

**PaperPulse** | *Flask, HTML/CSS, K-Means Clustering, LDA [Link](#)*

**Nov. 2023**

- **Developed a robust research paper recommender system** utilizing TF-IDF, cosine similarity, and dimensionality reduction techniques.
- **Developed a full stack Flask web application** with keyword search and cluster-based recommendations for each research paper.

**Full Stack Blogging Website** | *Java, SpringBoot, React [Link](#)*

**March. 2023**

- **Created a REST API in Spring Boot to perform CRUD** operations.
- Connected the application to a **PostgreSQL database and used Spring JPA** as an ORM to retrieve data.
- **Developed React Frontend** of the application, and **integrated it with the SpringBoot API** to fetch data.

**Real Time Multi Client Chat Application** | *Golang, Socket Programming [Link](#)*

**Oct. 2024**

- **Developed a multi-threaded TCP-based real-time client server chat app.** in Go, that allows multiple clients to join and communicate within different chat rooms through socket programming.
- **Implemented concurrent data handling** with go-routines for sending and receiving messages simultaneously, optimizing responsiveness by handling multiple communication channels.
- Utilized thread-safe connection management **using mutex locks to coordinate concurrent access to shared resources** ensuring data integrity and reliability in multi-threaded network communication

## EXPERIENCE

**Summer Intern** | *Centre of Excellence (COE) IIIT Noida*

**June 2022 – August 2022**

- Developed a comprehensive Flask web application for a platform for students to practice coding questions.
- Developed frontend for the student dashboard for tracking progress using HTML/CSS.
- Established seamless integration with PostgreSQL database and developed a REST API utilizing Flask.