

SURAJ KASHYAP

Howrah, West Bengal

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Education

Indian Institute of Engineering Science and Technology, Shibpur

Bachelor of Technology in Computer Science (CGPA - 9.33/10.0)

Nov 2022 – May 2026

Howrah, West Bengal

Chinmaya Vidyalaya, Bokaro

Intermediate; CBSE Board (95.2%)

Aug 2020 – May 2022

Bokaro, Jharkhand

Pitts Modern school, Gomia

Matriculation; CBSE Board (98%)

Apr 2019 – Mar 2020

Bokaro, Jharkhand

Projects

Threshold driven Clustering Algorithm | *Python, Natural Language Processing* | [GitHub](#)

- Developed a unsupervised document clustering approach to cluster documents based on **TF-IDF** vectorization.
- Utilized **Python** scripting alongside **Pandas**, **NLTK**, and **Sklearn** modules to engineer a robust clustering algorithm.
- Conducted comparative analyses against traditional clustering algorithms like **KMeans**, **Agglomerative CLustering** and **Gaussian Mixture** to validate the efficacy of the proposed approach.

Web Application for Playing Radio | *Django, React, RadioBrowser API* | [GitHub](#)

- Developed a web application for playing radio using **React** as the frontend framework and **Django** as the backend framework.
- Integrated the **Radio Browser API** to provide a wide range of radio stations categorized by language and content.
- Enabled users to create or join rooms, with guests needing a room code to join. Implemented host controls, allowing the host to select radio stations and set permissions for guests.

MyNote (Text Editing App) | *Python, Tkinter, SQLite3* | [GitHub](#)

- Developed a text editor application using Python's **Tkinter** library, providing functionalities like text formatting, saving, opening, and searching within the text.
- Implemented various text formatting features, providing users with flexibility in customizing their text styles.
- Added additional functionalities such as find and replace, go-to line, and keyboard shortcuts for navigation and editing.
- Integrated **SQLite3** database for storing text formatting information, ensuring persistence of formatting choices across sessions and enabling efficient management of text styles.

Certification

IIT Bombay Abhyuday

Winter Camp Participant, Techgyan

Nov 2022 – Dec 2022

[Link](#)

- Attended an intensive winter camp focused on Advanced Python Programming concepts.
- Acquired proficiency in **Python** programming, along with other packages like **Tkinter**, **CGI**, **MySQL**, etc

Technical Skills

Languages: Python, Java, C++/C, MySQL, JavaScript

Technologies/Frameworks: Django, React

Familiar: Object Oriented Programming

Achievements

- **CodeChef:** **Top 3%**, 1800+ contest rating, 4-stars. [imsuraj675](#)
- **Codechef Contest:** Secured **global rank 28** in CodeChef Starter 112 and **global rank 194** in Starter 120.
- **Codeforces:** 1500+ contest rating tagged **Specialist**, [Surajk21](#)
- **Codeforces Contest:** Secured a official **global standing of 555** in Codeforces Round 929.
- **Leetcode:** **Top 8%**, 1700+ contest rating [Surajk21](#)
- **Social Summer of Code Season 3:** Contributed in projects under Social Summer of Code Season 3. [Link](#)
- **AlgoManiac Contest:** Secured **Top 15** position in Algomaniac, held as part of Convolution 9.0 at **Jadavpur University**.