

GAURAV KUMAR SINGH

+91 9664395951

gauravkumarsingh1020@gmail.com · [LinkedIn Profile](#) · [GitHub](#)

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY

Bachelor of Technology in Computer Science Engineering
CGPA: 8.32 (Till 2021)

SHIV JYOTI CONVENT SCHOOL, LADPURA, KOTA

12th CBSE: 78.8% (2018)

ST. PAUL'S SENIOR SECONDARY SCHOOL, BEAWAR

10th CBSE: 10 CGPA (2016)

PROJECTS

SMARTPHONE RECOMMENDATION APPLICATION

- Used **Scrapy** framework in **Python** to crawl a website to create a dataset containing desired information from over 300 web pages
- Pre-processed the dataset obtained using **Pandas**, **NumPy** frameworks to rate the smartphones based on the scores calculated
- Visualized data using **Matplotlib** and **Plotly** frameworks comparing the performance metrics of recommended smartphones
- Created the frontend using **Python (Flask)**, **HTML**, and **CSS**
- [Source Code Link](#)

DISCORD BOT

- Created a scalable Discord Bot with multiple commands using **Discord.js** and **Node.js**.
- Features of the bot:
 - ❖ **Music Bot:** Used **distube.js** to create multiple commands which allow the user to listen to any song, podcast, or playlists.
 - ❖ Commands available for music bot: play, pause, stop, loop, disconnect, autoplay, resume, stop, skip and view the queue
 - ❖ **Tic-Tac-Toe with friends:** Used **async-await** functions and promises to handle user inputs to make it robust
 - ❖ **Delete bulk messages:** Command which deletes a bunch of text messages at once from the channel
 - ❖ **Toss:** Coin toss simulator
 - ❖ **Mass mute and unmute:** Commands, which when invoked, can automatically detect the current voice channel of the user and mute/unmute everyone in that channel
- [Source Code Link](#)

CEMENT INDUSTRY DATABASE MANAGEMENT SYSTEM

- Created a windows application using **C#** and **Visual Studio** to manage the data of the cement industry
- Normalized schema to Boyce Codd Normal Form (BCNF)
- Used **MySQL Workbench** to create schema and SQL queries for creation, modification, and deletion of entries
- [Source Code Link](#)

MINI PROJECTS

- Created a To-do application using **HTML**, **CSS**, **JavaScript**, **Node.js**, **Express.js**, **MongoDB**, **mongoose.js** [Source Code Link](#)
- Developed an **improved Round-Robin process scheduling algorithm** (5%-10% improvement) in **C++**
 - ❖ Comparison visualization between traditional Round-Robin and Improved Round-Robin algorithm for all the comparison metrics[Source Code Link](#)

CERTIFICATIONS

- Full Stack: Front End Web Development (1 Feb 2021 – 28 Jun 2021) [Credential](#)
- Full Stack: Back End Web Development (1 Apr 2021 – 6 Sep 2021) [Credential](#)

SKILLS

- Proficient in: C, C++, Python, HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, mongoose and MySQL
- Worked on projects based on: C#, Java, RStudio, MATLAB, Flask Framework (Python)

ACHIEVEMENTS

- | | |
|--|--|
| ➤ JEE Mains 2019: 96.025 percentile, Advance 2019: AIR 15071 | ➤ Chamber of Codes (DTU) 2021 Rank :7 |
| ➤ Facebook Hacker Cup 2021 Round-2 Rank: 2833 | ➤ D2C Recruitables 2021, Score: 245/400 |
| ➤ CodeDrift 2.0 August 2021 Rank: 56, InterviewBit | ➤ Newton's Grand Contest 2021 Rank: 2225 |