

# Aastha Gupta

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## SUMMARY

Enthusiastic third-year Computer Science and Engineering student who is fervently exploring diverse realms within the technical landscape. Proficient in programming languages like C++, Python, and Java, I specialize in developing web applications. Aspiring Analyst and Data Scientist equipped with practical knowledge of Machine Learning algorithms, I am dedicated to exploring data-driven solutions. A collaborative team player, I have a track record of producing impactful work and achieving notable results within the data science arena.

## EXPERIENCE

### Data Intern

IndiGG(Kratos Studios)

August 2023 – Present, Bengaluru

- Designed and built cluster models for segregating gamers, leveraging advanced analytical techniques.
- Managed the acquisition of social media analytics, deriving meaningful insights through a combination of SQL and Python.
- Conducted sentiment analysis on customer feedback and reviews, contributing to a comprehensive understanding of user sentiments.
- Conducted exploratory data analysis and utilized web scraping techniques for data collection, constructing mathematical models for analysis.
- Dedicated efforts towards enhancing the payment infrastructure, including the development of customized scripts.
- Leveraged SQL for data retrieval and executed ad-hoc tasks to facilitate data visualization.
- Created and sustained interactive dashboards for ongoing monitoring and reporting.

### Machine Learning and Data Science Intern

Jio Platforms Limited

August 2023 – December 2023, Remote

- Executed advanced audio-based content similarity analysis on diverse media, specializing in songs and movie audio.
- Developed and implemented deep learning algorithms for precise genre classification, utilizing pretraining and finetuning strategies.
- Implementation of cutting-edge deep learning models specifically tailored for audio processing.
- Applied expertise in pretraining to extract crucial features from audio data, optimizing model performance through strategic finetuning.
- Collaborated seamlessly with cross-functional teams to integrate models into existing systems, contributing to enhanced product offerings.

## PROJECTS

### Lip reading mechanism

- Created a video-based lip-reading system using deep learning (LSTM, Neural Networks) for accurate word detection. Enhances speech recognition, particularly in noisy environments, without the need for transcribed audio data.
- The project showcases the potential of lip reading as a standalone, video-based solution, eliminating the need for transcribed audio data in training.

### VoiceBhasha

- VoiceBhashai is an integrated language processing solution designed for seamless communication. This project encompasses automatic audio language detection, accurate transcription to text, translation into various Indian languages, and the synthesis of translated text back into audio.
- Leveraging cutting-edge technologies, VoiceBhasha ensures efficient and automated linguistic transformations, fostering inclusive and accessible communication across diverse linguistic landscapes.

### CinemaNudge

- CinemaNudge is a content-based movie recommendation system that personalizes suggestions based on movie features like genre, director, and plot keywords. Enjoy a curated cinematic experience tailored to your unique tastes and interests.

### Sentiment Analyzer

- A customer-product sentiment analysis tool that interprets feedback and reviews, providing actionable insights for enhanced customer experiences and informed decision-making.

### Indian Music Genre Classifier

- Uses deep learning techniques to classify the given audio in the different Indian music genres.

## EDUCATION

### Bachelors of Technology, Computer Science and Engineering

Vellore Institute of Technology • Vellore, Tamil Nadu • 2025 • 8.98

### **CBSE 12th**

Geetanjali Olympiad School and College · Bengaluru, Karnataka · 2021 · 95.4%

### **CBSE 10th**

Bal Bharati Public School · Noida, Uttar Pradesh · 2019 · 97.2%

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## **INVOLVEMENT**

### **Core member**

Toastmasters International

### **Senior Core Member**

Vellore Institute of Technology · Google Developer Student Clubs · March 2022 – Present

### **Inner Core Member**

Vellore Institute of Technology · Codechef · March 2022 – Present

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## **SKILLS**

Machine Learning, Data Science, Data Analysis, Deep Learning

Web scraping

Frontend Web Development: HTML, CSS, JavaScript, ReactJS

Python

Java

C

C++

SQL, MongoDB

Database Management

UI/UX Designing, Graphic Designing

Data Structures and Algorithms

Operating Systems

Public Speaking

Digital Marketing