

Yash Mehrotra

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About

Yash embodies a strong sense of commitment and drive, with a profound passion for web development, quant programming, machine learning, and contributing to technical content and community initiatives.

Education

Indian Institute of Technology Madras Bachelor of Science, <i>Data Science and Applications</i>	09/2023 – Present
St. James School , Hardoi Intermediate , <i>PCM (CS)</i>	04/2009 – 03/2023

Projects

Chat Application Developer Project Link <i>ChatWallah</i>	03/2024 – Present
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- Created a real-time chat application using **Flask** and **Socket.IO** for seamless user communication in random rooms
- Integrated **Socket.IO** to ensure efficient real-time messaging between users
- Developed a backend server with **Flask** , **Python** and **sqlite** to manage chat rooms and user sessions

Data Analysis Project Link <i>Zomato Data Analysis</i>	05/2024 – 06/2024
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- Analyzed Zomato data using **Pandas** and **Matplotlib** to identify trends and patterns in the food industry
- Visualized data using **Matplotlib** and **Seaborn** to provide insights into the food delivery market
- Created a detailed report with actionable recommendations for Zomato based on data analysis results

Developed a facial expression recognition system Project Link <i>Facial Expression Recognition</i>	06/2024 – 07/2024
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- Developed a facial expression recognition system using **YOLOv5** to detect seven emotional states: **angry**, **disgust**, **fear**, **happy**, **neutral**, **sad**, and **surprise**
- Implemented real-time emotion detection capabilities, achieving high accuracy in various lighting conditions and facial orientations
- Optimized the model for efficient performance, enabling quick and accurate emotion classification on diverse facial images

Position of Responsibility

Google Developer Student Club - Indian Institute of Technology, Madras <i>Linux Community Lead</i>	01/2023 – Present
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- Became one of the founding volunteers for GDSC IITM's Linux division
- Hosted tech talk : [Switching to Linux](#) ,[Versioning Visions: Git](#) , [Github and Beyond](#)
- Leading a community of 380+ in system commands, troubleshooting and OS related problems

Achievements

Smart India Hackathon	10/2023 – 12/2023
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- Finalist of Smart India Hackathon
- Developed a translation web app that converts English text to various Indian regional languages
- Optimized the entire codebase to improve performance and ensure smoother operation

Skills

- **Programming Languages:** Python , JavaScript , TypeScript , C++ ,
- **Web-Dev Frameworks/Tools:** React.js , Flask , Next.js , Node.js , Express.js , Socket.IO

- **Databases:** MongoDB , SQLite , MySQL
- **ML/DL:** NumPy , Pandas , Matplotlib , Seaborn , Scikit-learn , OpenCV , YOLOv5
- **Automation:** Docker , Bash , Git , GitHub