



VISHESH

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EDUCATION

Indian Institute of Technology, Delhi

B.Tech. in Materials Engineering

Overall GPA: **6.855/10.0**

Delhi

2020 - Present

Nav Uday Convent Public School

Class XII CBSE

Percentage: **94%**

Delhi

2020

Salwan Public School

Class X CBSE

Percentage: **95.8**

Delhi

2018

PROJECTS

WhatsApp MERN Clone

June 2022

Self Project

<https://github.com/cheeku75/WhatsApp-MERN-clone/tree/master>

- Developed a full-stack WhatsApp clone using **MERN (MongoDB, Express.js, React.js, Node.js) Stack**
- Leveraged **Postman** to perform comprehensive testing of the **REST API** of the clone by sending HTTP requests to verify endpoints
- Utilized advanced features of **Node.js, Express.js** such as *event-driven programming* and *asynchronous processing* to optimize the performance of the clone
- Used **MongoDB**, a *NoSQL database*, to store and retrieve chat messages and user data efficiently and scalably
- Integrated MongoDB with **Pusher**, to enable *real-time* communication between users and ensure that messages and other data are updated in real-time
- Designed and implemented a responsive user interface with **React.js components, props, and state** to create a modular and maintainable frontend architecture

Twitter REACT Clone

May 2022

Self Project

<https://github.com/cheeku75/Twitter-REACT-clone/tree/master>

- Designed and developed an end-to-end Twitter clone with *live-tweeting* functionality
- Leveraged the **React.js** library as the core framework for frontend
- Used **Material-UI's** comprehensive set of pre-designed, customizable UI components for Twitter Icons
- Deployed backend on **Firebase** for its serverless, real-time data synchronization for a responsive social media; Used Firebase's hierarchical structure of **JSON** documents for storing and retrieving User Profiles, User tweets
- Developed a highly *modular* and maintainable codebase that enables seamless code *reusability* and *scalability*

ANN-based ML Model

September-November 2022

Prof. Suryanarayana Vikrant Karra

<https://github.com/cheeku75/ANN-based-ML-model>

- Utilized Python libraries such as **NumPy, Pandas, TensorFlow, and Matplotlib** to predict the Glass Transition Temperatures of Multicomponent Oxide Glasses with as high as 65 elements
- Conducted extensive data pre-processing, analysis, and modeling using state-of-the-art deep neural network algorithms, including the use of the **Adam optimizer**, to achieve high levels of accuracy and precision
- Successfully visualized and communicated the results through effective use of **Matplotlib**, showcasing advanced technical skills in data visualization

TECHNICAL SKILLS

Programming Languages: JavaScript, HTML, CSS, C, C++, Python, Java, SQL

Tools/Utilities: \LaTeX , AutoCAD, MATLAB, MS Office

POSITIONS OF RESPONSIBILITY

• Coordinator, TRYST'23, IIT Delhi:

- Led a **3-tier** team with **5+** Activity heads and **20+** Team heads to plan and manage logistics requirements for **100+** Events and **20000+** Participants in North India's largest Technical Fest

• Captain, Cricket Team, Aravali Hostel, Board for Hostel Management:

- Led a team of **20+** players to a **3rd Place** finish in Inter-Hostel General Championship 2023 among **10+** competing hostels

EXTRA CURRICULAR ACTIVITIES

- Represented **IIT Delhi Cricket Team** and secured podium finishes in various **national-level** tournaments