

ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology, Vellore
B. Tech in Computer Science - CGPA - 8.02

09 2022 – Present

Vellore, Tamil Nadu

Delhi Public School, Ranchi
Higher Secondary Education - CBSE - Percentage - 92.8%

04 2019 – 03 2021

Ranchi, Jharkhand

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, Typescript, SQL, R, HTML, CSS

Technologies/Frameworks: ArchLinux, HyprLand, Wayland, GitHub, ReactJS, NodeJS, ExpressJS, MongoDB, Postman, Thunder Client, JWT

PROJECTS

Notes App using MERN Stack | *MongoDB, Express.js, React.js, Node.js, JWT, Axios, TailwindCSS*

- Developed a **full-stack Notes app** with a clean UI and **secure authentication**, enabling users to create, edit, and delete notes.
- Implemented **JWT authentication** and **role-based access control** to ensure secure user data handling.
- Integrated **audio-to-text conversion** using the Web Speech API, enhancing accessibility.
- Optimized API performance with **Axios and middleware validation**, reducing response times. Deployed on **Vercel** with **continuous integration**.

Contacts Manager API with JWT Authentication | *JavaScript, Node.js, Express.js, MongoDB*

- Built a **RESTful Contact Manager API** using **Node.js, Express.js, and MongoDB** to perform CRUD operations on contacts.
- Implemented **JWT-based authentication** and **bcrypt password hashing** to secure user data.
- Developed **input validation and error handling** to improve API reliability.
- Used **Mongoose ORM** for schema validation and indexing, ensuring efficient data storage.

Django User Authentication System | *HTML, Python, Django*

- Designed a **Django-based authentication system** with secure **signup, login, and logout** functionality.
- Implemented **password hashing** and **CSRF protection** to prevent security breaches.
- Optimized **Django's session management** to handle multiple users efficiently.
- Developed **custom forms with validation** for better user input handling.

Machine Learning Fundamentals Project | *Python, Scikit-learn, Pandas*

- Explored **supervised and unsupervised learning** by implementing algorithms like **linear regression, decision trees, and K-means clustering**.
- Preprocessed real-world datasets using **Pandas and NumPy** for better model accuracy.
- Used **Scikit-learn** to train and evaluate models, improving prediction accuracy.
- Documented findings and shared implementation details via **GitHub** for reproducibility.

EXTRACURRICULAR

IEEE-Professional Communication Society(IEEE-PCS) 

04 2023 – Present

General Secretary

VIT, Vellore

- As General Secretary of the IEEE-PCS chapter, led recruitment and onboarding of new members, providing mentorship and guidance to foster their growth. Organized and executed chapter events, managed logistics and outreach for guest speakers, and drove successful marketing campaigns to maximize event engagement and participation.

CERTIFICATIONS

- Java
- Supervised and Unsupervised Learning by Andrew Ng - Coursera
- Python for Data Science - Udemy
- Microsoft AI Classroom - Microsoft
- 5 Stars in C++ - Hackerrank 