ARNAV TRIVEDI

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EDUCATION

Vellore Institute of Technology (VIT), Vellore   **09/2022 – Present**
B.Tech in Computer Science   *CGPA: 8.02 — Vellore, Tamil Nadu*

Delhi Public School, Ranchi   **04/2019 – 03/2021**
Higher Secondary Education – CBSE   *Percentage: 92.8% — Ranchi, Jharkhand*

TECHNICAL SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, SQL, R, HTML, CSS
Frameworks: React.js, Node.js, Express.js, Django, Mongoose, TailwindCSS
Databases: MongoDB, PostgreSQL, Firebase
Tools: Git, GitHub, Postman, Thunder Client, Docker, Web Speech API
OS: Arch Linux, HyprLand, Wayland, Windows, Ubuntu

PROJECTS

Notes App using MERN Stack | *MongoDB, Express.js, React.js, Node.js, JWT, Axios, TailwindCSS*
- Engineered a **secure and scalable notes application** with seamless user authentication and data persistence.
- Implemented **JWT-based authentication**, significantly reducing unauthorized access attempts by **95%**.
- Integrated **audio-to-text transcription**, enabling hands-free note-taking and improving accessibility.
- Optimized API endpoints and database queries, improving **response times by 40%** for a smoother user experience.

Contacts Manager API with JWT Authentication | *JavaScript, Node.js, Express.js, MongoDB*
- Designed a **scalable RESTful API** to efficiently manage extensive contact records with full CRUD functionality.
- Integrated **AES encryption**, strengthening data security and safeguarding sensitive information.
- Minimized API failures by **70%** through comprehensive input validation and structured error handling.
- Accelerated **query performance** by leveraging Mongoose ORM indexing for smooth data retrieval.

Django User Authentication System | *HTML, Python, Django*
- Developed a **reliable authentication system** capable of handling **high user traffic** securely.
- Integrated **password hashing and CSRF protection**, significantly fortifying security measures.
- Enhanced **session management**, improving login responsiveness by **40%**.

Machine Learning Fundamentals Project | *Python, Scikit-learn, Pandas*
- Developed and **10+ machine learning models**, improving prediction accuracy by **20%**.
- Conducted **Exploratory Data Analysis (EDA)** on **1M+ records**, uncovering key patterns and insights.
- Maintained version-controlled documentation on GitHub, ensuring **100% reproducibility** and seamless collaboration.

EXTRACURRICULAR

IEEE Professional Communication Society (IEEE-PCS), VIT Vellore   **04/2023 – Present**
General Secretary
- Led recruitment, increasing member engagement by **40%** and fostering a **collaborative environment**.
- Organized **10+ technical workshops, 5+ speaker sessions**, and multiple networking events, benefiting **500+ students**.
- Managed outreach and marketing, boosting event participation by **60%** through strategic promotions.

CERTIFICATIONS

Java Programming – Coursera

Supervised & Unsupervised Machine Learning – Andrew Ng, Coursera

Python for Data Science – Udemy

Microsoft AI Classroom – Microsoft

5-Star C++ – HackerRank