UDAY SINGH

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PROFESSIONAL SUMMARY

Product-focused Computer Science undergraduate (Data Analytics) at VIT-AP (**CGPA: 9.15/10**) with hands-on experience building full-stack applications using **React, TypeScript, Node.js, MongoDB, and REST APIs**. Co-founded EduSphere360 and delivered measurable outcomes including **40% higher user engagement** and **20% backend performance improvement**. Strong in end-to-end feature ownership, analytics-driven iteration, and scalable system design.

EDUCATION

Vellore Institute of Technology (VIT-AP)   **Amaravati, India**
B.Tech in Computer Science and Engineering (Data Analytics)   *Expected Graduation: 2027*
− **CGPA: 9.15/10** | Last Semester GPA: 9.43/10

− Relevant Coursework: Data Structures, Algorithms, DBMS, Operating Systems, Machine Learning, Statistical Analysis

Saharanpur Public School (ISC)   **Saharanpur, India**
Class XII: 84.8%   *2022*

Saharanpur Public School (ICSE)   **Saharanpur, India**
Class X: 97%   *2020*

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL
Frontend: React, HTML/CSS, Responsive UI, Component Architecture, Performance Optimization
Backend: Node.js, REST APIs, Authentication (JWT), API Integration
Databases: MongoDB, MySQL, Database Design, Query Optimization
Data & ML: Pandas, NumPy, EDA, Feature Engineering, Predictive Modeling, Statistical Analysis
Tools: Git, Docker, Postman, Debugging, Unit Testing, Agile/Scrum

EXPERIENCE

Co-Founder & Product Lead   **2024 − Present**
EduSphere360   *Remote*
− Led end-to-end product development from ideation to deployment, aligning engineering execution and business goals

− Built and shipped full-stack features using **React, TypeScript, Node.js, MongoDB, and REST APIs** for a consumer-facing learning platform

− Improved user engagement by **40%** through analytics-driven UI improvements and iterative feature releases

− Optimized backend performance by **20%** via query tuning, API improvements, and scalable request handling

Technical Team Member   **2023 − 2024**
Microsoft Student Chapter, VIT-AP   *Amaravati, India*
− Conducted peer learning sessions and workshops on web development and problem-solving fundamentals

− Mentored students on coding best practices, debugging, and structured preparation for technical interviews

FEATURED PROJECTS

LifeLine 360 - Hyper-Local Disaster Monitoring System | *Python, IoT, Real-Time Processing*   **2024**
− Built a real-time pipeline to ingest sensor signals and generate emergency alerts

Customer Churn Prediction | *Python, Machine Learning, Pandas, NumPy*   **2024**
− Built churn prediction pipeline with feature engineering and model evaluation

− Achieved **85% accuracy** using ensemble learning and statistical validation

SafeSafe - Secure Application Platform | *Node.js, Python, Security Best Practices*   **2023**
− Implemented secure backend services with validation, access control, and encryption best practices

ACHIEVEMENTS & LEADERSHIP

Amazon HackOn 2025: Ranked in **Top 4%** among 2,000+ teams by building a scalable web application
Smart India Hackathon (SIH) 2024: Built a consumer-facing full-stack solution under a 36-hour hackathon deadline
Microsoft Learn Student Ambassador: Delivered technical workshops and supported peer learning initiatives