Madhav Madupu

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Professional Summary

Results-driven Computer Science undergraduate (B.Tech expected 2026) with 1.3+ years of hands-on experience building full-stack applications, scalable ML pipelines, and AI-powered financial analytics tools. Proven ability to lead end-to-end development of cross-platform platforms (React Native, Next.js, Vue.js) and deploy MLOps systems on Google Cloud Platform using Docker, Prefect, and Streamlit/Dash. Skilled in Python, TensorFlow, PyTorch, and modern web stacks, with domain expertise in ESG scoring, portfolio optimization, real-time logistics tracking, and generative AI. Certified in Google Data Analytics, AWS Cloud, and Meta Front-End Development, with a strong commitment to clean code, agile collaboration, and ethical AI for social impact.

Education

ACE Engineering College   **November 2022 – April 2026 (Expected)**
Bachelor of Technology (B.Tech) in Computer Science and Engineering   *Hyderabad, Telangana*

Relevant Coursework

- Data Structures
- Data Structures & Algorithms
- Machine Learning
- Deep Learning
- Neural Networks
- Artificial Intelligence
- Database Systems
- Web Technologies
- Mobile Application Development
- Software Engineering
- Probability & Statistics
- Linear Algebra
- System Architecture

Projects

GL vs TB Reconciliation & Data Quality Audit | *Python, SQL, Pandas, Excel, Power BI*   **Working on it**
- Built an end-to-end reconciliation framework to validate completeness and accuracy between General Ledger and Trial Balance, automating debit-credit aggregation using Python and SQL to identify missing accounts and balance mismatches across 10K+ financial records
- Implemented comprehensive data quality checks for duplicates, nulls, and inconsistent postings, reducing manual reconciliation effort by 75% while ensuring 100% GL coverage validation
- Created interactive Power BI dashboards and summary reports to visualize discrepancies, enabling faster audit review and data-driven decision-making for stakeholders

ESG Intelligence Engine | *Python, SEC EDGAR, Hugging Face, XGBoost, Streamlit*   **April 2025**
- Predicted company ESG scores by fusing SBERT embeddings from 10-K filings with financial fundamentals; achieved Spearman $\rho = 0.78$ vs. Refinitiv
- Deployed Streamlit dashboard with peer benchmarking and SHAP explainability; automated pipeline using Prefect for nightly EDGAR ingestion

Acethletics - Live Score & Merch Mobile/Web App | *TypeScript, React Native, Expo, Figma, Next.js* **December 2024**
- Designed and built a cross-platform mobile app from scratch using Expo and React Native with NativeWind for consistent, responsive styling; implemented Apple-inspired UI/UX via Figma-first workflow.
- Complemented with a marketing landing page and download portal deployed on Vercel.

Experience

LNS Solutions Inc   **May 2025 – October 2025**
Junior Front End Developer   *Remote*
- Developed real-time shipment tracking features for a global logistics platform serving enterprise clients like DHL, using Vue.js to deliver responsive, scalable UIs with seamless REST API integration and robust state management
- Collaborated with backend teams to optimize Flask-based APIs, implemented comprehensive unit testing and component reusability, reducing bug resolution time by 25% through proactive documentation and streamlined Git workflows
- Participated in full SDLC from requirement analysis to deployment, gaining hands-on experience in enterprise-grade development, sprint planning, peer code reviews, and maintaining high code quality standards under tight SLAs

Frost Interactive Services   **June 2024 – January 2025**
Data Analytics & Software Development Intern   *Hyderabad, Telangana*
- Analyzed user behavior data and application performance metrics using Python and SQL to drive product decisions, identifying key engagement patterns that informed feature prioritization and improved user retention by 15%
- Built data pipelines and automated reporting workflows to process sports statistics, player performance data, and recruitment analytics, enabling real-time dashboards for stakeholders using MongoDB aggregation and data visualization tools
- Led development of two full-stack platforms (live-score sports app and student hiring portal) leveraging data-driven insights, implementing REST APIs, WebSockets for real-time updates, and mentoring a 10+ member agile team on analytics-first development practices

Technical Skills

Languages: Python, Java, C, C++, Go, Rust, JavaScript, TypeScript, R, SQL, HTML/CSS
Developer Tools: VS Code, IntelliJ IDEA, PyCharm, Eclipse, Android Studio, Postman, Git, GitHub, Google Cloud Platform (GCP), Amazon Web Services (AWS), Docker, Docker Compose, Kubernetes, VMware, Travis CI, Jenkins
Technologies/Frameworks: React, Next.js, Vue.js, Node.js, FastAPI, Flask, GraphQL, REST, TensorFlow, PyTorch, Hugging Face Transformers, LangChain, Firebase, Supabase, MongoDB, PostgreSQL, Tailwind CSS, Material-UI, Framer Motion, Zustand, Expo, React Native, JUnit, WordPress, Linux, Ubuntu

Licenses & certifications

Google, IBM & AWS Certifications: IBM Data Analytics Professional Certificate, Google Data Analytics Professional Certificate, AWS Cloud Practitioner, AWS Technical Essentials, and multiple Google AI/GenAI courses (e.g., Intro to LLMs, Responsible AI, Generative AI with Google Cloud).
Meta & HackerRank: Meta Front-End Developer Capstone & Coding Interview Prep; HackerRank Student Ambassador.
Specialized Training: Oracle Cloud AI & GenAI Professional, Cisco CCNA (Networking), Anthropic Model Context Protocol (Python), and CampusX Data Science Mentorship Program (DSMP 2.0).