Himanshu Ranjan

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Summary

Product-focused Software Engineering student skilled in full-stack development, ML systems, and problem-solving. Experienced in building scalable applications, analyzing user workflows, and translating problems into structured product decisions. Strong interest in user-centric, data-driven product design for high-impact AI products such as HyperVerge's KYC and identity verification systems.

Technical & Product Skills

Product Skills: User Research, Requirement Breakdown, Journey Mapping, A/B Testing Basics, Product Metrics, Documentation, Problem Scoping
Languages: Python, JavaScript, Java, C, SQL, HTML, CSS
Frameworks: React, Node.js, Express, Flask, REST APIs
ML/DS: NumPy, Pandas, scikit-learn, PyTorch, TensorFlow
Tools: Git, Docker, Linux, MongoDB, AWS, VS Code, Jupyter
Foundations: Data Structures, OOP, API Development, DBMS, OS, Networks

Experience

Prototype Lead — Ramaiah Institute of Technology, Bengaluru   Aug 2025 – Present
- Defined product problem statements for ML model switching, focusing on system reliability and user constraints.
- Built reproducible datasets and testing workflows enabling structured evaluation and design decisions.
- Created intermediate documentation and visual evaluation reports to communicate insights with stakeholders.

Frontend Developer Intern — Ramaiah Institute of Technology, Bengaluru   May 2023 – Jul 2023
- Developed responsive UI components, improving load performance and user interaction smoothness.
- Participated in Agile sprints; collaborated with peers to refine requirements and enhance usability.
- Improved page rendering performance through profiling and optimization.

Club Member — CodeRIT   Jan 2024 – Present
- Organized and conducted multiple hackathons, contributing to event planning, and technical coordination.

Projects

AI-Based Stock Trading Web App   Dec 2024 – Jan 2025
MongoDB, Python, Flask, React, REST APIs
- Built ML-driven trading simulator handling 200+ trades using LSTM prediction and sentiment analysis.
- Reduced API latency by 30% through optimized endpoint design and async workflows.
- Designed user flow for portfolio simulation and analysis.

AI-Powered Travel Planner (MERN)   Oct 2024 – Nov 2024
MongoDB, Express, React, Node
- Developed collaborative itinerary planner with ML-based landmark suggestion.
- Improved UX through better navigation clarity and simplified booking flows.
- Implemented email reminder system for planned activities.

Finance Dashboard   Aug 2024 – Sep 2024
Python, Pandas, Matplotlib
- Built real-time portfolio dashboards with exportable analytics for quick insights.
- Automated reporting workflows, reducing manual analysis time.

Education

B.E. CSE (AI & ML) — MSRIT, Bengaluru (CGPA: 9.1)   Nov 2022 – Jun 2026
CBSE 12th — Gyan Niketan, Patna (91%)   2021
CBSE 10th — MTTTES, Patna (89.5%)   2019

Certifications & Achievements

- Linux Foundation- Introduction to Linux (LFS101)
- Google Cloud Career Launchpad — Generative AI Track
- AWS Certified Cloud Practitioner
- NPTEL Software Engineering
- Coursera Cryptography Certification
- Bootcamp Winner — Emmetra