DERIN GIRISH D G

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PROFESSIONAL SUMMARY

Computer Science undergraduate specializing in **Data Science, AI, and Machine Learning**, with hands-on experience building end-to-end AI applications, predictive analytics systems, RAG pipelines, and NLP-based solutions. Proficient in Python, SQL, data analysis/visualization, and full-stack development. Published research at an international Springer-indexed conference and independently built production-style AI systems integrating LLMs, Computer Vision, and Vector Databases.

TECHNICAL SKILLS

Programming: Python, SQL, C, HTML, CSS, JavaScript
Data Science & Analytics: NumPy, Pandas, Matplotlib, Seaborn, Plotly, Excel, Power BI, Statistics, EDA, Data Cleaning
AI / Machine Learning: ML, NLP, Prompt Engineering, RAG, Vector Databases, LLM Integration, OCR / Computer Vision, Predictive Analytics
Frameworks & Tools: React.js, Node.js, Express.js, FastAPI, Streamlit, Firebase, Git/GitHub, VS Code, Jupyter, Colab
Databases: MongoDB, MySQL, PostgreSQL, ChromaDB (Vector DB)

PROJECTS

FinMind — *AI-Driven Personal Finance Intelligence & Predictive Analytics System*
React.js, Node.js, Express.js, MongoDB, ChromaDB, NVIDIA NIM (Llama Vision/Instruct, NV-EmbedQA)

- Independently built a full-stack AI financial platform end to end — frontend, backend, database, auth, and analytics dashboards.
- Built a receipt OCR pipeline using **Llama-3.2-11B-Vision** to extract structured merchant, item, and tax data from images.
- Developed a **RAG** pipeline with **NV-EmbedQA-E5-V5** embeddings and ChromaDB for semantic search over transaction history.
- Integrated **Llama-3.1-70B-Instruct** to power a conversational financial advisor with personalized, hallucination-resistant insights.
- Implemented predictive analytics — spend forecasting, Z-score anomaly detection, recurring-expense detection, and an AI financial health score. GitHub: github.com/deringirish/FinMind

WorkExperio — *AI-Driven Team Formation & Performance Analytics Platform*
Python, FastAPI, React.js, PostgreSQL, MongoDB, NLP, ML | Springer SmartCom 2026 (accepted)

- Developed the AI/ML engine for a full-stack platform automating team formation and project execution (4-member capstone team).
- Implemented **NLP-based resume parsing** and **clustering-based team formation** to match students into balanced teams.
- Integrated LLMs for AI project/task generation and an AI mentor chatbot, including prompt engineering and model evaluation.

Forensic Management System — *Digital Evidence & Case Tracking System*
Python, Tkinter, MySQL

- Built a desktop app for forensic case management — relational schema, secure case linking, evidence tracking, and real-time updates.

RESEARCH PUBLICATION

WorkExperio: An AI-Enabled System for Automated Team Formation and Performance Analytics
Springer Nature — Lecture Notes in Networks and Systems (LNNS), SmartCom 2026, Pune Accepted, Jan 2026

- Co-authored a peer-reviewed paper accepted for oral presentation and Springer publication at SmartCom 2026; contributed the AI/ML components — NLP-based resume parsing, clustering-based skill matching, LLM-powered task generation, and model evaluation.

EDUCATION

Bachelor of Engineering — Computer Science & Engineering *2022 – 2026*
East Point College of Engineering and Technology, Bengaluru (VTU) CGPA: 8.33

EXPERIENCE

Full Stack Web Development Intern (MERN) *Feb 2026 – May 2026*
SuprMentr Technologies Pvt. Ltd. (in association with VTU, Belagavi)

- Completed a 15-week internship; built a full-stack e-commerce app (React.js, Node.js, Express.js, MongoDB, REST APIs) as capstone project, using Git workflows.

LEADERSHIP & ACHIEVEMENTS

- **IEEE Student Member**, EPCET (Dec 2022–Present); Event Organizer — Code Battle 2023, WebHunt 2024, Byte The Bug 2024.
- Finalist, TechFrontier 2025 — national-level hackathon by IIIT Delhi (via Unstop); reached final evaluation round.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate** — Oracle University (Oct 2025, valid till Oct 2027)
- **CS260: Introduction to Cryptography and Network Security** — Saylor Academy (Nov 2025, 92.5%, 50 hrs)
- **MongoDB Foundations Course for Beginners** — ScholarHat (Oct 2025)
- Data Structures & Algorithms; Data Analytics with Excel; Intro to Data Science; OS Fundamentals *(2025)*