Harini Sankareswaran

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EDUCATION

Vellore Institute of Technology (VIT) July 2025
Bachelor of Technology - Electronics and Communication Engineering | Chennai, India CGPA: 7.25

EXPERIENCE

Product Owner Trainee Nov 2025 – May 2026
Metavara Technologies Pvt Limited | Bengaluru, In

- **Managed and prioritized** the product backlog, aligning **sprint plans** with business goals to keep development on track across multiple sprint cycles.
- **Conducted market research** to identify growth opportunities, directly shaping **product decisions** and roadmap priorities.

Chip Design Intern
SWA Systems India Pvt Ltd | Bengaluru, In

- **Worked on chip design** and interconnections across semiconductor wafers, applying **structured, data-driven analysis** to identify and resolve design issues.

VLSI Design Intern
MavenSilicon | Bengaluru, In

- **Contributed** to a **RISC-V based project**, strengthening skills in technical documentation, debugging, and cross-functional collaboration.

PROJECTS

Land Cover Classification | CNN, ResNet50, Transfer Learning

- Built an **image classification model** using **ResNet50 transfer learning** to classify land cover types from satellite imagery.
- Applied **CNN fine-tuning techniques** to adapt a pre-trained architecture to a domain-specific dataset.

Customer Churn Prediction Dashboard | Python, XGBoost, Power BI

- Built an **XGBoost-based churn prediction model** achieving **91.8% accuracy** and **0.93 ROC-AUC**.
- Developed an interactive **Power BI dashboard** tracking **10+ KPIs** and key customer churn drivers.

Loan Default Risk Scoring Model | Python, Scikit-learn

- Built a **loan default prediction model** achieving **94.1% accuracy, 91% F1-score,** and **0.95 ROC-AUC**.
- Improved loan risk assessment through **feature engineering** and rigorous **model evaluation**.

Rural Micro-Enterprise Cash Flow Prediction & Risk Flagging | Python, ML

- Developed an **AI-powered cash flow forecasting model** achieving **89% prediction accuracy** and **0.91 ROC-AUC**.
- Implemented **real-time financial risk flagging** using **15+ financial and alternative data features**.

HACKATHONS

- **DigiKey electronica India Tech Challenge 2026:** Built GlucoEdge, a low-cost edge-AI **Continuous Glucose Monitor & closed-loop artificial pancreas** platform using ESP32-S3, TinyML, and LSTM-based glucose prediction; **Won 2nd Runner-Up (₹1,00,000)**.
- **x402 Global Challenge PreHack (Algorand Bharat):** Built **CreatorShield**, a gateway letting AI agents pay per request for agent-ready content; **Won 1st Runner Up**.
- **NABARD Hackathon @ GFF 2026:** Built an **AI-driven cash flow prediction & risk flagging** model for rural micro-enterprises.
- **OpenAI Codex Builder Challenge:** Built **BhumiClear**, an OpenAI-powered tool that decodes government land records into a plain-language risk report card.
- **Sarvam BuildIn' Hours (Sarvam Epoch Buildathon):** Built **LingSync**, a cross-lingual video dubbing tool giving each speaker a distinct, accurate voice using the **Sarvam AI stack**.
- **Zero to One AI Hackathon:** Participant.

CERTIFICATIONS / ACHIEVEMENTS

- **Master Generative AI: GPT, LLMs, Agents & Use Cases:** Udemy.
- **Data Science, Machine Learning, Data Analysis with Python & R:** Udemy.
- **Business Analytics with Excel:** Microsoft (Simplilearn).
- **Power BI for Beginners:** Microsoft (Simplilearn).

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, Java, C, C++
ML & Deep Learning: Scikit-learn (Regression, Classification, Clustering, Feature Engineering, Model Evaluation), XGBoost, CNNs/ResNet50 (Transfer Learning), Pandas, NumPy
Generative AI & LLMs: GPT/LLMs & AI Agents (applied coursework), prompt-based workflows
Data, Visualization & Foundations: SQL (Joins, Window Functions, Query Optimization), Tableau, Power BI, Matplotlib, Seaborn, Excel, DSA, Linear Algebra, Probability & Statistics, Git/GitHub