

Kiran R

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Professional Summary

AI and Data Science undergraduate with experience in machine learning, computer vision, LLM applications, and big-data pipelines. Engineered systems using Python, PyTorch, Apache Spark, Azure, OpenAI APIs, and Solidity. First-author paper accepted at IEEE SCEECs 2025 and national finalist at Smart India Hackathon 2025 and Build for Bharat 2025. Interested in AI Engineer, Machine Learning Engineer, Data Scientist, and Data Engineer roles.

Education

Amrita Vishwa Vidyapeetham, Kollam
B.Tech in Artificial Intelligence and Data Science

Aug 2023 – Aug 2027
CGPA: 9.16/10

Internship Experience

Eonverse
AI Intern

Dec 2025 – Present

- Automated script-to-storyboard translation with LLM agents and reduced manual storyboard production effort by approximately 65%.
- Fine-tuned large language models to improve narrative consistency and implemented experiment logging, model versioning, and reproducible evaluation.

Projects

Automated Big Data and Predictive Analytics Pipeline

Jan 2025 – Apr 2025

Technologies: Python, Apache Spark, Microsoft Azure, React, SQL

- Engineered an ETL and machine learning pipeline on Apache Spark to process more than 1 million transactional records.
- Maintained throughput of 40,000 records per minute with a 10-minute SLA for data availability.
- Deployed the solution on Microsoft Azure with zero downtime over a 3-month production period.
- Created an auto-updating React dashboard that reduced financial reporting cycle time by 40%.
- GitHub: <https://github.com/adwaiths05/retail-sales-project-bigdata>

Breast Cancer Histology Classification

May 2025 – Jul 2025

Technologies: PyTorch, Vision Transformer, Radiomics, OpenCV

- Constructed a breast cancer classification pipeline on the BreakHis dataset using a custom Vision Transformer and radiomic features.
- Applied Macenko stain normalization and multimodal feature fusion to improve robustness across varying tissue images.
- Attained 96.2% average classification accuracy and 0.984 AUC-ROC using 5-fold stratified cross-validation.
- GitHub: <https://github.com/697kiran/Breast-Cancer-Histology-Detection-ViT-AttentionFCNN-Radiomics>

Blockchain-Based Facial Attendance System

Oct 2025 – Dec 2025

Technologies: Python, OpenCV, Ethereum, Solidity, Web3.py

- Developed a facial-recognition attendance system integrated with Ethereum smart contracts.
- Stored attendance records on-chain to improve transparency, auditability, and tamper resistance.
- Optimized Solidity contract logic with gas-aware design for lower transaction cost.
- GitHub: <https://github.com/697kiran/face-attendance-blockchain>

Chaotic Neural Networks for Stock Price Forecasting

Mar 2025 – Jul 2025

Technologies: PyTorch, LSTM, GRU, Time Series

- Trained LSTM and GRU models with chaos-inspired noise injection on S&P 500 time-series data.
- Delivered a 51.4% RMSE reduction and 0.941 Pearson correlation over a baseline LSTM.
- Implemented a rolling 80/20 train-test split with a fixed random seed for reproducible evaluation.
- GitHub: https://github.com/697kiran/Chaotic_Neural_Networks_for_Stock_Price_Prediction

Publications

- **Kiran R, Nithya**, “Geospatial Framework for Real-Time Electricity Generation and CO2 Emission Monitoring Across Indian States,” *IEEE SCEECs 2025*, IEEE Xplore (forthcoming).

Technical Skills

- **Languages:** Python, Java, JavaScript, SQL, Solidity, HTML, CSS
- **Machine Learning / AI:** Machine Learning, Deep Learning, PyTorch, TensorFlow, Keras, Scikit-Learn, XGBoost, Vision Transformers, LLMs, Prompt Engineering, RAG, Vector Databases
- **Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Feature Engineering
- **Computer Vision:** OpenCV, Image Classification, Stain Normalization, Radiomic Feature Extraction
- **Big Data / Cloud:** Apache Spark, ETL Pipelines, Distributed Systems, Microsoft Azure, AWS EC2, AWS S3, Docker
- **Web / Frontend:** React, Streamlit, REST APIs
- **Databases:** MySQL, PostgreSQL
- **Tools:** Git, GitHub, GitHub Actions, Linux, Jupyter Notebook, Power BI
- **Blockchain:** Ethereum, Solidity, Web3.py, Decentralized Applications

Achievements

- **Smart India Hackathon 2025 – National Finalist:** Led a 6-member team selected from 110+ institutional entries.
- **Build for Bharat 2025 – National Finalist:** Reached the Final Showcase and Jury Evaluation stage as Team Upstar.
- **IEEE SCEECs 2025 – First-Authored Publication:** Research paper accepted at the IEEE international conference.
- **Academic Excellence:** Maintained CGPA 9.16/10.
- **Teaching and Mentorship:** Mentored 10 students in PyTorch and TensorFlow and conducted workshops for 50+ students.

Certifications

- Certified Associate Data Scientist – DataCamp (2025)