VASHISTA C V

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SUMMARY

Software Engineer and AI/ML Practitioner with hands-on experience at **ISRO-NRSC** in satellite data analysis and deep learning. Published researcher. Skilled in full-stack development, data analysis, and deploying production-grade AI systems.

EDUCATION

Jain Institute of Technology — Davangere, Karnataka
Bachelor of Engineering in Computer Science and Engineering | CGPA: **8.8 / 10.0** — Nov 2022 – May 2026

TECHNICAL SKILLS

Languages: Python, Java, C, SQL
Software Dev: OOP, Data Structures & Algorithms, REST APIs, Agile, SDLC, Debugging, Version Control
ML / DL: TensorFlow, Keras, PyTorch, scikit-learn, XGBoost, CNNs, LSTMs, ResNet, Transfer Learning
AI / NLP: LangChain, LLMs, RAG, Prompt Engineering, Sentiment Analysis
Data & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Feature Engineering, Statistical Analysis, ETL
Dev / Cloud: Flask, Streamlit, Node.js, HTML5, CSS3, JavaScript, AWS, Docker, Git, MySQL, SQLite

WORK EXPERIENCE

ISRO – National Remote Sensing Centre (NRSC) — Hyderabad | Sep 2025 – Jan 2026
Research Intern

- Engineered a deep learning model to downscale rainfall over Telangana using satellite imagery — achieved **POD of 0.67**, version-controlled via Git.

Edunet Foundation (AICTE & Shell India – Skills4Future) — Remote | Jul – Aug 2025
AI / Data Analytics Intern

- Architected an AI-powered Restaurant Recommendation System — optimized end-to-end ML pipeline from preprocessing to deployment.

PROJECTS

Deep Spatio-Temporal 3D-CNN | *Keras, NetCDF4, Transfer Learning* — Present

- Engineered a satellite + ground data fusion model for rainfall prediction using spatio-temporal convolution — advancing meteorological forecast accuracy.

Samarth AI – Agricultural RAG System | *LangChain, LLMs, Streamlit* — Nov 2025 – Present

- Architected a production RAG system with live LLM reasoning over agricultural data — deployed at *project-samarth.vercel.app*.

EV Charging Demand Predictor | *Random Forest, Scikit-learn, Streamlit* — Jul 2025

- Optimized ensemble regression model achieving $\mathbf{R^2 = 0.94}$ — integrated interactive dashboard for real-time demand forecasting.

Deepfake Detection System | *ResNet-CNN + LSTM, TensorFlow, OpenCV* — Jul – Dec 2024

- Designed and evaluated a hybrid spatial-temporal architecture for video forgery detection — **88% accuracy** on benchmark datasets.

ACHIEVEMENTS & CERTIFICATIONS

1st Place – Paper Presentation, Mysterio 2025, JNNCE | Self-Healing Cyber Defense System using Decentralized AI

Published – "Privacy Preserving Voting System using Elliptic Curve Cryptography", IJPREMS, Dec 2024

Certifications: Prompt Engineering (Infosys), AI & Digital Skills (Accenture), NLP & Data Mining (VTU), Cybersecurity (Google), Data Analytics (Deloitte)