Vashista C V

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Davanagere, Karnataka, India

Professional Summary

Passionate Full Stack Developer and software developer pursuing Bachelor's in Computer Science at Jain Institute of Technology, Davangere. Currently working as Project Student at ISRO-NRSC with expertise in AI/ML, data science, blockchain, and cybersecurity. Proven track record across multiple internships in AI engineering, Python development, and machine learning. Focused on developing secure, scalable applications while staying updated with cutting-edge technology. Strong collaborator with creative problem-solving abilities and growth mindset.

Education

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

GOVT MMPU College — **Holalkere, Karnataka, India**
Pre-University Course (PCMB) | *Percentage: 84%* — *Aug 2020 – May 2022*

M.M.G.H.S High School — **Karnataka, India**
SSLC | *Percentage: 75%* — *Jun 2019 – Aug 2020*

Technical Skills

Programming Languages: Python, C, JavaScript, SQL, HTML, CSS
Software Development: Object-Oriented Programming (OOP), Data Structures & Algorithms, Design Patterns, Software Development Life Cycle (SDLC), Agile Methodologies, Code Optimization
Web Development: Node.js, Flask, Streamlit, RESTful APIs, HTML5, CSS3, JavaScript ES6+, Responsive Design
Data Science & Machine Learning: TensorFlow, Keras, PyTorch, scikit-learn, XGBoost, Random Forest, SVM, Neural Networks, Regression, Classification
Deep Learning: CNNs, LSTMs, ResNet, Transfer Learning, 3D-CNN, Computer Vision, NLP
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Excel, Statistical Analysis, ETL Pipelines
AI & NLP: LangChain, LLMs, Prompt Engineering, Text Processing, Sentiment Analysis
Cloud & DevOps: AWS, Git, GitHub, Version Control, CI/CD, Docker (Basic)
Databases: MySQL, SQLite, SQL Server, Database Design, Query Optimization
Tools & IDEs: VS Code, PyCharm, Jupyter Notebook, Postman, NetCDF4, OpenCV
Core Competencies: Full Stack Development, Data Mining, Feature Engineering, Statistical Modeling, Model Optimization, Predictive Analytics, Problem Solving, Debugging, Testing

Professional Experience

National Remote Sensing Centre (NRSC), Indian Space Research Organisation (ISRO) — **Sep 2025 – Present**
Project Student — *Hyderabad, Telangana, India*

- Working on advanced remote sensing and satellite data processing projects with focus on space technology applications
- Applying AI/ML techniques and data science methodologies to analyze satellite imagery and remote sensing data

Edunet Foundation — **Jul 2025 – Aug 2025**
AI/Data Analytics Intern — *Remote*

- Developed AI-powered solutions using Python, machine learning algorithms, and deep learning frameworks
- Implemented end-to-end ML pipelines including data preprocessing, model training, and deployment

MotionCut — **Feb 2025 – May 2025**
Python Programming Intern — *Remote*

- Built production-ready Python applications demonstrating strong OOP principles and software development practices
- Developed multiple projects including automation tools, data processing scripts, and GUI applications

Cognifyz Technologies — **Nov 2024 – Dec 2024**
Machine Learning Intern — *Remote*

- Created intelligent ML models using Scikit-learn, Random Forest, and advanced feature engineering techniques
- Implemented complete ML workflow from data cleaning to model evaluation and hyperparameter tuning

Brainwave Matrix Solutions **Jun 2024 – Jul 2024**
Data Science/Analytics Intern *Remote*

- Performed comprehensive data analysis using Python (Pandas, NumPy) and Microsoft Excel
- Created data visualizations and statistical reports to derive actionable business insights

Technical Projects

Deep Spatio-Temporal 3D-CNN for Rainfall Prediction | *3D-CNN, Keras, NetCDF4, Transfer Learning* Present

- Architected deep learning model integrating satellite NetCDF climate data with ground observations for rainfall prediction, implementing advanced spatio-temporal convolution layers for pattern extraction and improving forecast accuracy

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

- Built production-ready AI-powered RAG system (projectsamarth.vercel.app) integrating structured agricultural datasets with LLM reasoning, delivering unit-aware insights through intelligent prompt engineering and retrieval-augmented generation architecture

EV Charging Demand Prediction System | *Random Forest, Scikit-learn, Streamlit, Feature Engineering* Jul 2025

- Engineered and deployed end-to-end Random Forest regression model ($R^2 = 0.94$) with interactive Streamlit dashboard for forecasting EV charging demand, incorporating statistical validation and ensemble techniques

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

- Designed hybrid deep learning architecture combining ResNet-based CNN for spatial feature extraction with LSTM for temporal modeling, achieving 88% accuracy on forged video datasets

Professional Training & Certifications

Training Programs:

- **ICT Academy & Infosys Foundation (Phase 2)** – Completed Test Engineer training focused on software testing fundamentals, manual & automation testing practices for industry readiness, August 2025
- **MLverse Machine Learning Boot Camp** – Participated in intensive six-day boot camp by Abeyaantrix Edusoft LLP with hands-on ML model development and deployment strategies, April 2025

Certifications

- Prompt Engineering - Infosys Springboard
- Digital Skills: Artificial Intelligence - Accenture
- Natural Language Processing - VTU
- Data Mining - VTU
- Data Analytics Job Simulation – Deloitte Australia (Forage)
- Foundations of Cybersecurity – Google (Coursera)
- Basics of Python – Infosys Springboard

Achievements & Publications

- **Winner** – Paper Presentation, Mysterio 2025, JNNCE Shivamogga
- **Published** – ”Privacy Preserving Voting System using Elliptic Curve Cryptography”, International Journal of Progressive Research in Engineering Management and Science, 2024