Rakshit Srivastava

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Education

Vellore Institute of Technology — Vellore, Tamil Nadu
Bachelor of Technology in Information Technology — *Aug 2023 – Jul 2027*
***CGPA**: 9.47*

Little Flower School — Jamshedpur, Jharkhand
ICSE class 10th, ISC class 12th in Science — *Mar 2010 – May 2023*
***10th Percentage**: 93.6% | **12th Percentage**: 95%*

Certification

Microsoft Certified: Azure AI Engineer Associate
Credential ID: FF6FAB3DE25D58DB

Honours and Awards

Merit Scholarship: Awarded for securing 3rd rank in IT branch, Vellore Institute of Technology (2025)
Programme Representative: Represented 350+ IT students, Vellore Institute of Technology (2024-25)
Telco Cooperative Society Scholar of the Year: Recognized for academic excellence, Little Flower School (2023)

Projects

Digitour Sikkim | *Python Flask, PostgreSQL, HTML/CSS/JS, Azure AI Foundry* — Sep 2025

Smart India Hackathon 2025 (Internal Round)

- Built a full-stack platform to digitize Sikkim monasteries, qualifying among the top 100 teams from VIT.
- Developed Flask + PostgreSQL backend with secure user authentication and interactive map of monasteries.
- Implemented a virtual tour feature with annotated image hotspots and a contextual GPT-4.1 chatbot guide
- Integrated Azure TTS voice assistant and a cultural archive showcasing festivals, artifacts, and manuscripts

Query2Kart | *Python Flask, Azure AI Foundry (GPT-4o mini), SERP API* — July 2025

- Engineered an AI-driven product recommendation engine on Azure AI Foundry, leveraging GPT-4o mini for multi-turn natural language queries.
- Designed an intent classification system with 8 distinct intents to guide conversational flow.
- Automated structured query generation for SERP API, translating user context into precise product retrieval.
- Designed the backend with Python Flask, managing the end-to-end data pipeline from multi-turn user input to AI processing and final product recommendation

Deepfake Forensic Pipeline | *Python, Pytorch, Swin-ViT, Hugging Face* — August 2025

- Trained a Swin-ViT hybrid model on the Kaggle Deepfake dataset, achieving 99.86% accuracy and 0.9986 F1 Score.
- Designed a two-stage pipeline for real-time deepfake detection and source attribution, balancing accuracy vs. inference speed.
- Initiated knowledge distillation to compress the teacher model into a lightweight student model (in progress).
- Exploring frame extraction strategies to improve detection accuracy while reducing compute costs (in progress).

Technical Skills

Languages: Java, Python, C, C++, JavaScript, HTML/CSS
Databases: PostgreSQL, MongoDB, MySQL
Frameworks: React, Python Flask, Express
Developer Tools: Git, Docker, VS Code, Jupyter Notebooks, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, PyTorch
Cloud Platforms: Microsoft Azure
Core Competencies: Data Structure and Algorithms, Object Oriented Programming, Problem Solving
Soft Skills: Communication, Adaptability, Teamwork