

Rakshit Srivastava

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EDUCATION

Vellore Institute of Technology

Bachelor of Technology in Information Technology

CGPA: 9.47

Vellore, Tamil Nadu

Aug 2023 – Jul 2027

Little Flower School

ICSE class 10th, ISC class 12th in Science

10th Percentage: 93.6% | 12th Percentage: 95%

Jamshedpur, Jharkhand

Mar 2010 – May 2023

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

Deepfake Forensic Pipeline / Python, Pytorch, Swin-ViT, Hugging Face

August 2025-Present

- 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).

Query2Kart / Python Flask, Azure AI Foundry (GPT-4o mini), SERP API

July 2025-present

- Engineered an AI-driven product recommendation engine on Azure AI Foundry, leveraging the GPT-4o mini model to interpret natural language queries and maintain context across a multi-turn conversation
- Developed a proprietary intent classification system, defining 8 distinct intents (e.g., sort, filter, new requirement) to accurately categorize user input and guide the conversational flow
- Programmed the system to dynamically generate a JSON payload for SERP API, translating the classified user intent and a rich conversational history into a structured request for 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

CelestHer / Python Flask, React, Hugging Face (BART), Twilio

March 2025

- Developed a full-stack mental health platform for women in high-stress jobs, building a Flask backend with a React frontend
- Utilized the Hugging Face API to integrate the BART model for mood classification
- Engineered a real-time alert system utilizing the Twilio API to notify close contacts when a user was flagged as experiencing high stress or tension

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