

Shikhar Srivastava

Lucknow, India
B.Tech in Computer Science and Engineering

+91 96530 57385
sshikhar863@gmail.com
github.com/Shikhar8765
linkedin.com/in/shikhar-srivastava-bob815251

EDUCATION

- VIT Bhopal University

B.Tech — Computer Science and Engineering (CGPA 8.84/10)

2022–2026
- Dabble College, Lucknow

ISC — Class XII (PCM) 95%

2022
- Lucknow Public Schools, Lucknow

ICSE — Class X 93.8%

2020

EXPERIENCE

- National Informatics Centre (NIC)

Software Development Intern

Lucknow
Nov 2024 – Dec 2024

–Built Flask-MySQL e-filing portal for courts, reducing manual workload 40% across five districts after user interviews.
- HCLTech

Machine Learning Intern

Lucknow
Aug 2024 – Oct 2024

–Designed stock-price prediction pipeline (GBR, AdaBoost, RF); achieved $R^2 = 0.96$ on unseen NSE data.

SELECTED PROJECTS

- Real Time Hospital Resource Management System

Streamlit • ARIMA • XGBoost • Firebase

Winner — SOLVIT '25
2025

–Engineered real-time ICU prediction dashboard reducing 22% wait time across 3 hospitals using ARIMA/XGBoost.
–Integrated Firebase-based intake forms, resource updates, and admin views with role-based routing.
- AI Tutor Agent

Gemini API • Streamlit • SymPy • LLM Routing

GitHub — Multi-Agent EdTech App
2025

–Built a multi-agent tutor system with sub-agents (Math, Physics, Chemistry) using Google Gemini API and SymPy tools.
–Implemented memory context, LLM-based routing, and Streamlit UI; deployed on Railway with full session persistence.
- Real Time Edge Pest Detection System

PyTorch • ONNX • Jetson Nano

Winner — TechTrack '25
2025

–Deployed CNN model on Jetson Nano using ONNX runtime (<80ms inference); validated sensor-based spray decisions.
–Added SHAP explainability and offline sync from SQLite to Firebase; trained on synthetic noisy data.
- Real Time Potato Disease detection using FBEWT and customized VGG

FBEWT • VGG16/19 • Random Forest

Published — MAI Conf.
2025

–Combined FBEWT signal features with VGG embeddings for Random Forest classifier (94% accuracy on 2152 images).
–Validated with ROC, Violin curve plots, and published research detailing FBEWT-VGG hybrid model.

TECHNICAL SKILLS

- Languages: Python, Java,SQL
- Frameworks: PyTorch, TensorFlow, Flask, Streamlit
- ML / AI: Time-Series, Computer Vision, NLP, Transfer Learning
- Tools: Git, Docker, Jupyter, OpenCV

CERTIFICATIONS

IBM Certified Machine Learning Professional (2025)

ACHIEVEMENTS

- Winner — SOLVIT Hackathon 2025Led 6-member team to 1st place with AI ICU dashboard adopted in 3 hospitals.
- Winner — TechTrack Case Battle 2025Built Jetson-based edge pest detector, outperformed 85+ teams, interned at Karagre Robotics
- Top 8 — HackerEarth ML Challenge 2024Ranked top 2% out of 3,000+ via MAE-reducing ensemble forecasts
- Finalist — Smart India Hackathon 2023 & 20242-time finalist (top 1%) with scalable citizen-service AI solutions