

EDUCATION

- VIT Bhopal University**
B.Tech — Computer Science and Engineering (CGPA 8.82/10) 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)** Lucknow
Software Development Intern
Nov 2024 – Dec 2024
–Developed a UI/UX-friendly e-filing portal for courts, enabling advocates to digitally file grievances and track real-time updates.
- HCLTech** Lucknow
Machine Learning Intern
Aug 2024 – Oct 2024
–Designed stock-price prediction pipeline (GBR, AdaBoost, RF); achieved $R^2 = 0.96$ on unseen NSE data.

SELECTED PROJECTS

- Arogyati-Real Time Hospital Resource Management System** Winner — SOLVIT '25
Streamlit • ARIMA • XGBoost • Firebase 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.
–GitHub Link: https://github.com/Shikhar8765/SolVIT-B/tree/main/Team_60
- Swasthya Sanket** AIR 4 in CITLX Metaversity Hackathon
Gemini API • Streamlit • Firebase Firestore • ML Model 2025
–Designed an AI-powered care companion for ASHA workers to assess community and individual NCD risks in rural women.
–Integrated LightGBM community risk model, personalized diet and work plans, and Gemini-based Hindi health assistant chatbot.
–Built interactive Streamlit UI; deployed with real-time model predictions and chatbot query logging.
–GitHub Link: <https://github.com/Shikhar8765/SwasthyaSanket>
- RoomMitra** Winner TechTrack CaseBattle'25
Streamlit • Pandas • NumPy 2025
–Developed a Streamlit web application for roommate matching, enabling users to find compatible roommates based on lifestyle and academic preferences.
–Implemented a matching algorithm considering factors like study habits, sleep schedules, cleanliness, and noise tolerance to generate compatibility scores.
–GitHub Link: <https://github.com/Shikhar8765/RoomMitra>
- Real Time Potato Disease detection using FBEWT and customized VGG** Published — MAI Conf.
FBEWT • VGG16/19 • Random Forest 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:** Java
- 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 2025**Led 6-member team to 1st place with AI ICU dashboard adopted in 3 hospitals.
- Winner TechTrack Case Battle 2025**Built Jetson-based edge pest detector, outperformed 85+ teams, interned at Karagre Robotics.
- Top 8 HackerEarth ML Challenge 2024**Ranked top 2% out of 3,000+ via MAE-reducing ensemble forecasts
- Design Patent** Co-inventor of a registered design for a glaucoma screening device (Design No. 435863, India)