
EDUCATION:

Bachelor of Technology (B.Tech.) - Computer Science

Sep 2022 - June 2026

Vellore Institute of Technology (B.TECH CSE Core)

Cumulative GPA - 7.47

SKILLS:

- **Languages:** Python, Java, C++, SQL.
 - **Core Competencies:** Problem-solving, Data Structure and Algorithms, Database Management System, Artificial Intelligence, Machine learning (TensorFlow, PyTorch, Scikit, Matplotlib, Pandas), Prompt Engineering, CI/CD Pipelines, Data Engineering, Data Visualization, Data Analysis, Market research, Relationship management, Data interpretation, Reporting and documentation.
 - **Tools:** MS Office(Word, Excel, PowerPoint), Tableau, PowerBI, MySQL
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PROJECTS:

- **Fake medicine detection** Dec 2025 - Ongoing
 - Addressed the problem of purchase and consumption of fake medicines unknowingly by developing an AI-assisted real-time Computer Vision (CV) pipeline using OpenCV and PyZbar to decode pharmaceutical barcodes, achieving 90%+ classification accuracy on simulated medicine datasets.
 - Engineered a rule-based risk engine that extracts features like batch ID, expiry, from the given barcode on the medicine and scan frequency to classify products as Genuine, Suspicious, or Fake.
 - Implemented a stateful backend using SQLite and Pandas to log 5,000+ daily scans, creating a data-driven audit trail for anomaly detection and pattern analysis.
 - Deployed the interface on Streamlit Cloud with mobile camera integration, reducing manual verification overhead by ~80% enabling real-time medicine verification, ensuring smooth system usability.
 - Tech Stack: Python, OpenCV, Pyzbar, Streamlit, SQLite, Pandas, Matplotlib, Rule-Based ML Logic, Risk Scoring Engine, Mobile Camera Integration.
 - **Heart disease detection** (Machine Learning) May 2025- Sept 2025
 - Developed a predictive analytics system for early identification of heart disease risks using patient medical and physical data.
 - Integrated and optimized various machine learning algorithms (e.g., Logistic Regression, Support Vector Machines, Random Forest) to enhance prediction accuracy and efficiency.
 - Attained a prediction accuracy of more than 85% by analyzing 1000+ dataset entries and built visual reports and performance dashboards to communicate insights
 - Skills Used: Python, Scikit-learn, Pandas, NumPy, Matplotlib, ML Model Optimization, Data Analysis.
 - **Desktop Assistant** Nov 2024- Feb 2025
 - Developed an automated workflow management system to handle routine operational tasks, resulting in a 20% increase in process efficiency.
 - Designed modular workflows to integrate speech recognition for sub-second voice-to-text conversion and a GUI (Tkinter) for task execution features demonstrating hands-on experience in automation, process streamlining, and user-centric design.
 - Skills used: Automation, OpenCV, PyTorch, Tkinter Python libraries (SpeechRecognition, pyttsx3)
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CO-CURRICULARS:

- Python gold badge , Hackerrank
- C++ gold badge , Hackerrank
- Market Research Analysis, NPTEL, IIT Kharagpur.
- Earned 15 Skill badges in Google Cloud Skill Boost.
- A certified course on Generative AI by IBM.
- Member, AI Club, VIT Bhopal 2022 – Coordinated with cross-functional teams and organized multiple events, workshops, and functions involving 500+ people within the AI Club, contributing to community building, knowledge sharing, and enhancing student participation in Artificial Intelligence initiatives