Likitha Balaji

Software Developer • Data Science Enthusiast and Testing
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EDUCATION

VIT UNIVERSITY VELLORE
MCA
07/2023 - Present -2025| Vellore, India
GPA: 8.88/ 10

VIT UNIVERSITY VELLORE
BCA
07/2020 - 06/2023 | Vellore, India
GPA: 8.67 / 10

SKILLS

LANGUAGES
Python - Java - JavaScript - NodeJS

TESTING
Selenium - Playwright - Manual - JUnit - JIRA - STLC

FRAMEWORKS
AngularJS - HTML/CSS - RESTful APIs

MACHINE LEARNING
Github ,Excel, NumPy - Pandas, Matplotlib - PowerBI, Ensemble Methods, Voting Classifier, SMOTE

DEEP LEARNING
TensorFlow, Keras, PyTorch, CNN, LSTM

DATABASE MANAGEMENT
MongoDB - SQL

DEVOPS
AWS - SDLC - Docker - Agile

SOFT SKILLS
Strong reasoning, Data analysis, collaboration, leadership, Governance, Verbal Communication.

CERTIFICATES

Programming in Python (Meta)
Machine Learning with Python (IBM)
Java Programming (Great Learning)
DevOps (Simplilearn)

LANGUAGES

English • Full Professional Proficiency
Telugu • Native
Tamil • Full Professional Proficiency

SUMMARY

MCA student from VIT (2025) skilled in Python ,Data Science, full-stack development, machine learning, and data analysis. Built 5+ real-time projects using REST APIs, Flask, and modern web technologies. Achieved 95% model accuracy using ML libraries like Scikit-learn, Pandas, and XGBoost. Strong in data preprocessing, EDA, and deploying ML models for real-time use.

PROJECTS

Enhancing financial security in credit card using machine learning algorithms

ML – Logistic Regression, Decision Tree, XGBoost, Voting Classifier, Flask , Pandas, NumPy, Scikit-learn

- Engineered a high-performance fraud detection model using **Logistic Regression Data Engineering**, **XGBoost**, and a **Voting Classifier**, achieving **99% accuracy** on an imbalanced credit card dataset.
- Applied advanced **Data Transformation techniques** to improve minority class detection and deployed the solution via a lightweight **Flask API**, reducing prediction latency to **under 500 ms**.
- Integrated **real-time data streaming** with optimized **machine learning Data Transformation** , enabling rapid detection of high-risk financial transactions.

Dynamic Resource Allocation Method in Cloud

Capstone Project

JSP, Servlets, JDBC, MySQL, Cloud – Distributed Systems, AWS, MOSOS

- Architectured a cloud resource allocation efficiency by **30%** through the integration of the **MOSOS algorithm**, which enabled dynamic scheduling and reduced execution time in large-scale simulated environments.
- Achieved **95% processing success** under peak loads by building a scalable backend with **Java Servlets** and **JDBC** for smooth cloud operations.

Smart Burglar Alarm System - SET Conference Paper

ML, Python, CNN, Computer Vision, DL, TensorFlow, Numpy

- Achieved **90% accuracy** in identifying security threats on customized datasets.
- Utilized **Convolutional Neural Networks (CNN)** and optimized **deep learning models** with **Python** on **IoT-driven datasets**.

ACHIEVEMENTS

Full Stack Development – Hackathon (24 hrs)

ReactJS, Angular, MongoDB, JavaScript, TypeScript, HTML/CSS

- Participated in a team of 5, won top scorer with full marks; contributed to both frontend and backend development.

Java Programming – Web-a-Thon Hackathon (24 hrs)

Java, JSP, JDBC, MySQL

- Part of a 5-member team, achieved top scorer status, handling frontend and backend tasks.

SET Conference Paper

- Presented 2 papers in SET Conferences on project work involving machine learning and software development, focusing on **organizational domain modeling** and infrastructure development.