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EDUCATION

VIT Bhopal University

Bhopal, Madhya Pradesh

B. Tech in Computer Science Engineering, **GPA: 8.7/10**

Expected May 2026

Relevant Coursework: Data Structures and Algorithms, Software Engineering, Operating Systems, Artificial Intelligence and Machine Learning, Statistics, Computer Architecture, Microprocessors and Microcontrollers

SKILLS

C, C++, Python, Java, SQL, HTML, CSS, JavaScript, React.js, Node.js, Tailwind CSS, TypeScript, Pandas, NumPy, scikit-learn, TensorFlow, Keras, Seaborn, Matplotlib, AWS, Tableau, Microsoft Excel (PivotTables, VLOOKUP), Vercel, Git/GitHub, Figma

PROJECTS

EXPert - Effortless Expense Manager & Budget Planner

Feb - May 25

- Engineered a full-stack MERN financial dashboard using React, Node.js, Express, and MongoDB/Mongoose that allowed users to track and analyze their income/expenses, improving financial visibility and reducing manual tracking time by 70%.
- Architected secure authentication with JWT and Redux state management, safeguarding user accounts while reducing login/session errors by 40%, ensuring robust access control and seamless user experience.
- Deployed the application via Vercel (frontend) and Docker containerization, accelerating deployment speed by 50% and delivering a scalable, production-ready platform with improved UI/UX for end-users.

Drishti - Machine learning system for yield forecasting

Sep 24 - Jan 25

- Supervised a 10-member team in developing an ML-powered agri-dashboard, coordinating IoT, ML, and dashboard integration, and improving project delivery efficiency by 25% through streamlined workflows.
- Spearheaded the machine learning module, building a CNN from scratch for crop disease detection with 92% accuracy, while also implementing regression-based yield forecasting models.
- Integrated GSM-enabled IoT data collection with the ML dashboard, creating an end-to-end system that enhanced farmers' decision-making efficiency by 30%.

Dropin - Customer Churn Prediction for Financial Services

Dec - Mar 23

- Implemented machine learning and deep learning models including Logistic Regression, Random Forest, XGBoost, and ANN for bank churn prediction, achieving 80% accuracy in identifying high-risk customers.
- Utilized SHAP-based explainability to machine learning models, identifying the top 5 drivers of customer churn such as tenure, balance, and credit score, and improving stakeholder interpretability by 40%.
- Launched the churn prediction system via Streamlit, creating an interactive dashboard for real-time churn risk analysis and reducing analyst evaluation time by 30%.

ACHIEVEMENTS & EXTRACURRICULARS

Smart India Hackathon Grand Finalist, Team Hastakriti

Aug - Dec 24

- Innovated a cost-effective myoelectric prosthetic hand using 3D-printed PET components, ESP32 board, and EMG sensors, achieving 40% lower cost than conventional prosthetics.
- Distinguished as a Hardware Grand Finale team of Smart India Hackathon among 200,000+ participants, attending a 5-day national event and showcasing the project at one of India's largest innovation platforms.

Public Speaking: Clinched top positions and medals in various Extempore, Poetry Reciting and Debate Competitions; Won Academic Excellence award 2020, Jayshree Perival High School

POSITIONS OF RESPONSIBILITY

Fintech Club, VIT Bhopal

Nov 22 - June 24

Core Member, Event Management Team

- Orchestrated event logistics for 5+ finance awareness events, coordinating venue setup, A/V requirements, and materials distribution, which ensured seamless execution and positive participant feedback from over 500 students.

Dramatics Club, VIT Bhopal

Nov 22 - May 23

- Directed a 20+ member dramatics club, overseeing rehearsals, event logistics, and stage productions that boosted participation by 25%, while performing in the flagship event Darpan during Advitya 2023.

CERTIFICATIONS

MATLAB and Simulink (2022), Supervised Machine Learning (Stanford, DeepLearning.AI 2024), AWS Solutions Architect (Ethnus Codemithra 2025), Machine Learning with Python (IBM 2025), GEN AI using IBM Watsonx (IBM 2025)