

Vivek Srivastava



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Summary

Computer Science undergrad specializing in AI/ML. Skilled in building scalable applications and predictive models with measurable results. Seeking to leverage AI/ML and full-stack expertise to deliver data-driven, high-impact solutions.

Education

VIT Bhopal University

B.Tech. in CSE with specialization in AI & ML

Sep 2023 – Ongoing

CGPA: **9.09/10**

Technical Skills

Languages: Python, Java, C++, JavaScript

Web/Backend: React.js, Node.js, Express.js, Flask, MongoDB, MySQL, REST APIs

AI/ML: Scikit-learn, TensorFlow, PyTorch, NumPy, Pandas, Seaborn

Tools/Platforms: Git, Linux, Docker, Google Cloud, AWS, VS Code

Experience

India Space Lab

Dec 2024 – Jan 2025

Software Intern

- Developed Python scripts that automated telemetry simulations, reducing manual testing time by **30%**.
- Integrated CubeSat and UAV systems into real-time data pipelines, improving **data throughput by 25%**.

Projects

Breast Cancer Detection Using ML

[Link](#)

- Achieved **96% accuracy** using Random Forest after hyperparameter tuning with Grid Search.
- Built end-to-end ML pipeline with **500+ patient records**, enabling reproducible predictions.

Real-Time Emotion Detection System

[Link](#)

- Implemented a facial emotion classifier with OpenCV & FER models, achieving **92% accuracy** on test set.
- Optimized live video processing pipeline for **sub-second latency**.

Spotify Music Popularity Prediction

[Link](#)

- Trained regression models on **50k+ Spotify tracks** to predict popularity scores.
- Deployed interactive Streamlit app, enabling **100+ user queries/day**.

Certifications

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|---|----------|
| - GenAI using IBM Watsonx, IBM | Jun 2025 |
| - Azure Data Fundamentals, Microsoft | Jun 2025 |
| - Python for Data Science, AI & Development, Coursera | Feb 2025 |

Leadership & Honors

AI Club, VIT Bhopal — Technical Team

Jan 2024 – Present

- Led 5+ projects and organized workshops attended by 150+ students on AI/ML applications.

NSS Unit, VIT Bhopal — Volunteer

Aug 2024 – Present

- Coordinated 3 awareness campaigns and a plantation drive impacting 500+ community members.

Honors: Finalist — Neural Nexus Hackathon (2024)

State Round Qualifier — RBI@90 Quiz (2024)