Amol Tripathi

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EDUCATION

VIT Bhopal University, India *June 2022 – June 2026*
B.Tech in Computer Science **CGPA:** 8.33/10

TECHNICAL SKILLS

Languages: Python, C++, C, JavaScript
Machine Learning: Supervised Unsupervised Learning, Deep Learning, Neural Networks, SVM, NLP
Libraries: NumPy, Pandas, PyTorch, OpenCV, Matplotlib, Seaborn
Web: HTML5, CSS, JavaScript, PHP, Express, Node.js, MySQL, MongoDB, Bootstrap, APIs, Postman
Tools: Jupyter, Git, VS Code, MongoDB Compass, MetaMask
Soft Skills: Team Leadership, Communication, Project Management

WORK EXPERIENCE

Project Group Lead, VIT Bhopal *Sep 2023 – Feb 2025*

- Led a team of 10 in developing an ML model that reduced misclassification by 15%, optimized training time by 30%, and improved data processing speed by 40% using parallel computing techniques.
- Enhanced project delivery by 20% through efficient sprint planning, task automation, and team coordination.

PROJECTS

Foodie Express (GitHub Repo) *Jan 2025 – Feb 2025*
Technologies: PHP, MySQL, HTML, CSS

- Developed a hotel food ordering system with database integration and responsive UI, streamlining order tracking for admins and enhancing the guest dining experience.
- Applied under-sampling and ensemble techniques to handle class imbalance, resulting in a 15% improvement in system performance.

Student Information System (C++) (GitHub Repo) *May 2023 – June 2023*
Technologies: C++, Object-Oriented Programming (OOP), File Handling

- Developed a console-based student management system in C++ to handle registration, authentication, and record management using modular class-based design.
- Implemented file handling for persistent data storage and integrated user authentication with role-based access.

Breast Cancer Detection Using SVM *Jan 2024*
Technologies: Scikit-learn, Grid Search, Normalization

- Achieved 97% accuracy using SVM with preprocessing and feature scaling on the Wisconsin dataset.
- Boosted F1-score with grid search and cross-validation; reduced processing time by 25%.

ACTIVITIES

Club Participation, VIT Bhopal

- Attended various technical and non-technical club activities on campus.
- Earned certificates of participation in workshops, coding events, and speaker sessions.

Hackathon Enthusiast

- Participated in multiple college and national-level hackathons.
- Collaborated with team members to design and prototype solutions under time constraints.