

PRAVEEN UPPAR

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EDUCATION

Vellore Institute of Technology, Bhopal

Oct 2023 - Oct 2027

- Bachelor of Technology - BTech, Computer Science.
- CGPA: 8.5/10

SKILLS

- Languages: Python, JavaScript
- CS Core: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems (DBMS), Computer Networks
- DevOps: Linux, Ansible, Terraform, Docker, Kubernetes, Git, GitHub, Continuous Integration (CI) and Continuous Deployment (CD).
- Cloud: Amazon Web Services (AWS).
- Databases: PostgreSQL, MongoDB.
- Frontend: React.js, Next.js, Tailwind CSS.
- Backend: Node.js, Express.js.
- Soft skills: Communication, Team work, Problem-Solving, Leadership.

EXPERIENCE

Technical Team Lead, VITBMUN

Nov 2024 - May 2025

- Led a team of 5 developers in the successful redesign and rebuilding of the VITBMUN website, implementing 4 new UI/UX features that significantly improved user experience and functionality.
- Conducted 2 code reviews per week, ensuring adherence to high-quality standards and best practices among team members.
- Contributed to weekly strategic planning sessions, providing insights that led to identified technical improvements.

Open Source Contributor

Oct 2024 - Nov 2024

- Assisted in daily operations by executing routine tasks and providing support to team members.
- Collaborated effectively with project maintainers, achieving a rank of 1700 among over 50,000 contributors.
- Provided feedback on development processes, helping identify areas for potential improvement.
- Actively participated in community-driven software development, submitting 11 pull requests, reviewing code, and collaborating with project maintainers

PROJECTS

Potato Plant Disease Classification Model using CNN

Jan 2025 - May 2025

- Developed web applications powered by a Convolutional Neural Network (CNN) deep learning model to provide real-time classification of potato plant diseases (healthy, late blight, early blight), empowering farmers with early detection for intervention and prevention.
- Trained the model on a 9,000-image dataset, meticulously divided into three classes (healthy, late blight, early blight), using a 70/30 train-test split for robust validation.
- Improved model accuracy from 66.8% to 86.9% in Stage 1 and further to 89.2% in Stage 2, achieving a 33% overall increase.
- Optimized training by reducing epochs from 9 to 5, effectively preventing model overfitting and memorization of training data, and cutting training time from 20 minutes to 11 minutes (a 45% reduction).

Standard Cooling Access Cost Saving and IOPS Calculator

Apr 2024 - Apr 2024

- Developed a React-based "Cool Storage Cost Saving with IOPS Calculator" tool that optimizes data center IOPS and calculates cooling access cost savings across regions (e.g., \$126 monthly, \$1,520 annually for a 100 TB dataset in Australia).
- Provided users with real-time cost comparisons (with/without cool access) and tailored IOPS subscription recommendations across 5 distinct storage options (Standard, Premium, Ultra ANF, Azure Files, and Azure Files Premium) for informed storage strategy decisions, handling scenarios like 1,000 users with 100 IOPS each.

ACHIEVEMENTS

- Secured 2nd position in the Wikimedia-track at Hack Byte 3.0, IIIT Jabalpur.
- SolVIT Hackathon: Competed against 146 teams, advancing through 3 rounds to the finals (Top 31 teams) and securing a Top 5 position.

ADDITIONAL INFORMATION

- Languages:** English, Hindi, Kannada
- Courses:** Applied Machine Learning in Python - Coursera, Web Development Bootcamp - Udemy, Python Bootcamp - Udemy
- Certifications:** Microsoft Certified: Azure Fundamentals
- Interests:** Finance and FinTech