

Om Pawar

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EDUCATION

VIT Bhopal University

Bachelor in Technology in Computer Science

GPA: 8.10/10

November 2022 - May 2026

Bhopal, Madhya Pradesh

Shevgaon English Medium Jr. College

12th - MAHA HSC Board

Percentage: 83.17%

July 2022

Shevgaon, Maharashtra

Nirmal Bright Future School

10th - CBSE Board

Percentage: 87.33%

July 2020

Shevgaon, Maharashtra

TECHNICAL SKILLS

Languages: C++, JavaScript, HTML5, CSS3, SQL

Frameworks/Tools: Node.js, MySQL, MongoDB, Git.

Concepts: OOPs, Full-stack Development

PROJECTS

Hospital Management System | Java, MySQL, PHP, HTML, CSS, JavaScript

April 2024

- Deployed a scalable full-stack EHR system with Spring Boot & React.js, centralizing 500+ patient records and streamlining 100+ daily appointments to boost operational efficiency by 40%.
- Optimized a 15+ table MySQL database schema with complex queries and stored procedures, accelerating query response times by 45% and ensuring robust data integrity.
- Developed a responsive React SPA with a mobile-first design, leveraging hooks and component architecture to cut patient booking time by 30% and significantly improve engagement.
- Architected a secure RBAC system with Spring Security, enforcing HIPAA-compliant access controls to safeguard sensitive PHI for doctors, nurses, and administrators.
- Containerized the application using Docker and implemented CI/CD pipelines with Jenkins to enable consistent deployment environments, automate testing, and reduce release cycle time by 50%.
- Integrated RESTful APIs for real-time data synchronization between modules, eliminating data latency and improving system interoperability by 60%.

Disease Prediction Model | MySQL, PHP, HTML, CSS, JavaScript, Machine Learning

December 2024

- Achieved 100% test accuracy by architecting and implementing end-to-end machine learning pipelines, integrating ensemble methods such as Random Forest and XGBoost to optimize predictive model performance and scalability.
- Engineered a robust model validation strategy utilizing stratified K-Fold Cross-Validation and hyperparameter tuning, reducing prediction errors by 40% and mitigating overfitting to ensure superior model generalization and reproducibility.
- Executed comprehensive data preprocessing and feature engineering, including advanced imputation techniques, outlier detection, and recursive feature elimination, increasing pipeline efficiency by 25% and improving model interpretability.
- Automated the end-to-end model training and evaluation process using Python scripting, reducing manual effort by 50% and accelerating the iteration cycle for new models.
- Containerized the machine learning application using Docker to ensure consistent environments and streamline deployment workflows, enhancing reproducibility and MLOps practices.
- Built an interactive Streamlit dashboard delivering real-time predictions and model insights, enabling clinicians to make rapid, data-driven decisions.

ADDITIONAL INFORMATION

Languages: English (Professional Working Proficiency), Marathi (Native), Hindi (Fluent)

Volunteering: Contributed to open-source projects, focusing on improving accessibility and performance in web applications, worked as team leader in regional clubs.

CERTIFICATIONS

- **Full stack Development with MongoDB:** Certified in Full-Stack Development, mastering the MERN stack. [LINK](#)
- **Cloud Computing – NPTEL:** NPTEL Certified in core Cloud Computing principles and infrastructure. [LINK](#)
- **SQL (Basic) – Hacker Rank:** Earned Hacker Rank SQL certification. [LINK](#)
- **Infosys Springboard React :** Earned Infosys React certification, validating skills in building user interfaces. [LINK](#)