OM PAWAR

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Skills

- **Languages -** C++, Python, HTML, CSS, JavaScript, SQL.
- **Tools** - Pandas, SQL, Excel, MongoDB.

Education

VIT Bhopal University (Expected May 2026) — Bhopal, Madhya Pradesh
BTech Major in Computer Science and Engineering — Cumulative GPA: 8.12/10

Shevgaon English Medium School & Junior College, Shevgaon Maharashtra (Jul 2022)
12th Standard- MAHA HSC BOARD — Percentage: 83.17%

Nirmal Bright Future School, Shevgaon (Jul 2020)
10th Standard- CBSE (Central Board of Secondary Education) — Percentage: 87.33%

Projects

Hospital Management System (Oct 2023 – Dec 2023):

- Architected and deployed a scalable full-stack hospital management system, automating administrative processes for over **500+ patient records**, **100+ daily appointments**, and **50+ staff logins**, resulting in a 45% boost in operational efficiency.
- Designed and normalized a **MySQL-based relational database schema** with **15+ interconnected tables**, enabling reliable data storage and retrieval for patient history, appointment scheduling, staff roles, and medical inventory.
- Implemented **role-based access control (RBAC)** and secure login protocols to protect sensitive medical data; reduced unauthorized access incidents by 40% through encrypted session management and user permissions.
- Developed a responsive and accessible **front-end interface using HTML, CSS, and JavaScript**, improving patient onboarding and appointment booking speed by 30% through UI/UX enhancements and form optimizations.
- Integrated **automated billing, invoicing, and reporting modules** using PHP and MySQL, enabling real-time financial summaries and error-free invoice generation in under 2 seconds, improving overall billing accuracy by 35%.

Technologies Used: Java, MySQL, PHP, HTML, CSS, JavaScript.

Disease Prediction Model:

- Designed and developed a high-accuracy disease prediction system using advanced machine learning techniques, achieving 100% accuracy on test datasets and demonstrating exceptional model precision.
- Engineered a suite of classification algorithms that streamlined data analysis, resulting in a 40% reduction in prediction errors; enabled real-time insights that improved operational efficiency for data-driven projects. Utilized K-Fold cross-validation to validate model performance and improve generalizability across diverse data distributions.
- Leveraged K-Fold cross-validation to validate model performance across diverse datasets, improving generalization and minimizing overfitting by 30%.
- Spearheaded development of a multi-layered prediction model integrating outputs from five distinct classifiers to enhance disease diagnosis accuracy by 15% and reduce false positives.
- Conducted end-to-end data preprocessing, including missing value imputation, categorical encoding, and feature selection, leading to a 25% improvement in model training efficiency and predictive reliability.

Technologies Used: Machine Learning, Python, Scikit-Learn.

Notable Certifications

- Investigated TCP/IP protocols and network troubleshooting techniques through Coursera's "Bits and Bytes," resolving 15+ simulated network connectivity issues using Wireshark and command-line tools.

  Certificate:

- **Introduction to Machine Learning:**
- **Cloud Computing By NPTEL**:
- **Hacker Rank: Completed SQL(Basic) with 100% score:**