Praphull Kumar Yadav

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Professional Summary

Motivated Computer Science and Engineering undergraduate with a strong foundation in MERN full-stack development, machine learning, and data analytics. Experienced in designing scalable solutions and deploying real-time applications using Python, Flask, MySQL, and modern frontend frameworks. Proficient in collaborative problem-solving, model optimization, and cloud-based project deployment. Eager to bring adaptability and a fresh perspective to a dynamic engineering team.

Education

VIT Bhopal University **Bhopal, Madhya Pradesh**
Bachelor of Technology (B.Tech) in Computer Science and Engineering *CGPA: 9.22*

Bhavan's Kesari Devi Kanoria Vidya Mandir **Sonebhadra, Uttar Pradesh**
Class 12: 96.0% — Class 10: 99.6%

Experience

MERN Stack E-commerce Platform | *Personal Project* **May 2025 – June 2025**

- Developed and delivered a full-featured e-commerce platform similar to Amazon using the MERN stack (MongoDB, Express.js, React.js, Node.js), showcasing active participation in all stages of design, development, and delivery
- Implemented a modern, responsive UI/UX with Tailwind CSS and a comprehensive RESTful API with JWT-based authentication
- Managed user profiles, product data, and order processing within a MongoDB database, incorporating security best practices
- Live Site: ShopHub — GitHub: Repository

VaidyaSetu – AI-Powered Medical Support System | *Team Project* **Jan 2025 – Present**

- Developed a medical web platform using AI for diagnosis support and doctor verification, collaborating with a 5-member team
- Designed secure login and navigation systems using Flask and MySQL, improving user experience for 100+ test users
- Integrated an NLP-based chatbot that enhanced medical report comprehension by 40% based on user feedback

Flutter Tic Tac Toe – Mobile Game Application | *Independent Project* **2024 – 2025**

- Engineered a Tic Tac Toe game with Player vs Player and AI-based opponent modes using Flutter, reflecting self-directed learning and ownership over design and implementation
- Implemented responsive UI design and smooth animations for enhanced user engagement
- Published publicly on APKPure: Tic-Tac-Toe

EDA on Diabetes Dataset – Data Science & Visualization | *Academic Project* **2024**

- Performed exploratory data analysis on the Diabetes dataset using pandas, seaborn, and matplotlib, identifying trends, outliers, and correlations
- Cleaned and pre-processed data by handling missing values and applying one-hot encoding, improving data quality by 20% and built a Linear Regression model to predict disease progression with an RMSE of 52.55
- Visualized feature relationships using pair plots, heatmaps, and regression plots to interpret model performance and feature impact
- GitHub: EDA Project

Technical Skills

Domains: Data Science and Analytics, Machine Learning, Natural Language Processing (NLP), Web Development, Mobile App Development
Programming Languages: Python, C++, Java, JavaScript, Dart
Libraries & Frameworks: Pandas, NumPy, Seaborn, BERT, React.js, Express.js, Node.js, Flask
Databases: MySQL, MongoDB
Tools & Technologies: Git, REST API Integration

Certifications/Courses

Introduction to Machine Learning – NPTEL (Elite + Silver)
Introduction to MongoDB – MongoDB University
MongoDB Python Developer Path – MongoDB University
Data Analysis with Python – IBM / Coursera
Python 101 for Data Science – Cognitive Class / IBM