# 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 10*: 99.6% | *Class 12*: 96.0%

# Experience

**MERN Stack E-commerce Platform** *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:](https://ecommercemern123.netlify.app/) [[ShopHub\_Github](https://ecommercemern123.netlify.app/)](https://github.com/Praphull4564/ECommerceMERN)

**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](https://apkpure.com/p/com.praphull.tictactoe)

**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 and showcasing experience with data processing.
* 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](https://github.com/Praphull4564/Data-Science/blob/main/EDA_Project.ipynb)

# 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

[*Data Analytics Job Simulation* – Deloitte Australia (Forage)](https://forage-uploads-prod.s3.amazonaws.com/completion-certificates/9PBTqmSxAf6zZTseP/io9DzWKe3PTsiS6GG_9PBTqmSxAf6zZTseP_oNsQsQPTdbh22K95a_1737993637620_completion_certificate.pdf)

[Microsoft Certified: Azure Data Fundamentals](https://www.credly.com/badges/4f5b98d4-b3de-4e89-a667-3713e96b851f)

[*Modern Web Development with MERN Stack - FacePrep*](https://www.linkedin.com/in/praphull5084/details/certifications/1753020338423/single-media-viewer/?profileId=ACoAAEYrmoABpRPZjW0v7buetO42M17Trk3VZFk)

[*Introduction to Machine Learning* – NPTEL (Elite + Silver)](https://internalapp.nptel.ac.in/NOC/NOC25/SEM1/Ecertificates/106/noc25-cs46/Course/NPTEL25CS46S35980015204390148.pdf)

[*Introduction to MongoDB* – MongoDB University](https://learn.mongodb.com/c/yn9Kk6xMTRWYEpDCWB8IUg)

[*MongoDB Python Developer Path* – MongoDB University](https://learn.mongodb.com/c/PjmaUXKhRVG6bnI-vRDgRA)

[*Data Analysis with Python* – IBM / Coursera](https://courses.cognitiveclass.ai/certificates/a8e1b27c3cee48f4802cff2ef7f1a142)

[*Python 101 for Data Science* – Cognitive Class / IBM](https://courses.cognitiveclass.ai/certificates/7f721ceca0384a1090f363a936837dcb)