

Prachi Tavse

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Education

VIT Bhopal University	Bhopal, Madhya Pradesh
B. Tech in Computer Science and Engineering	CGPA: 8.79/10 (2022-2026)
CBSE 12 th Standard	Percentage: 94% (2022)
Gyan Sagar Girls, Academy	Ujjain, Madhya Pradesh
CBSE 10 th Standard	Percentage: 91.8% (2020)
Gyan Sagar Girls Academy	Ujjain, Madhya Pradesh

Skills

Technical Skills: C++, Python, Machine learning, JavaScript, NodeJS, ReactJS, SQL, PostgreSQL, MongoDB

Projects

Sakhi Sangam – AI-Powered Financial Literacy Platform | *Machine Learning, Databases*

Tech Stack: Python, Flask, Rasa, Node.js, React.js, MongoDB (Jan 2025 – Present)

- Developed an AI-driven chatbot using Rasa to provide personalized financial education, assisting rural women with savings, budgeting, and investment strategies.
- Integrated 5 machine learning models and a MongoDB-based pipeline to generate real-time financial insights, enabling data-driven decision-making for users.
- Designed an interactive multilingual UI (4 languages) with gamified learning elements, improving accessibility and engagement for users with low digital literacy.

AutoML System App – Automated Model Training & Evaluation | *Machine Learning, Databases*

Tech Stack: Python, Flask, JavaScript, PostgreSQL, Node.js (Aug 2024)

- Engineered a desktop AutoML tool enabling users to upload CSV, XLSX, and XLS datasets (tested on 5000+ rows, 10+ features) for automated ML model training and evaluation without manual coding.
- Implemented hyperparameter tuning techniques, optimizing model selection and performance across multiple algorithms to enhance predictive accuracy.
- Developed a PostgreSQL-backed structured data storage system, ensuring efficient data retrieval and secure management, and established a seamless frontend-backend integration with a secure authentication system.

Breast Cancer Detection – ML & Deep Learning-Based Prediction | *Machine Learning, Optimization*

Tech Stack: Python, TensorFlow, Keras, Scikit-learn (Jan 2024 – Mar 2024)

- Built and evaluated five machine learning and two deep learning models, including XGBoost, Decision Tree, and ExtraTree, to improve breast cancer diagnosis on the WDBC dataset.
- Applied advanced feature selection and optimization algorithms like the Sine-Cosine Algorithm and Flower Pollination Algorithm, enhancing model interpretability and achieving 98.24% accuracy.

Experiences

Data Analyst Intern at PreProd Corp (Sep 2024 – Dec 2024)

- Engaged in technical research and development in data science and AI/ML for 3.5 months, including data analysis, machine learning model implementation, and data-driven solution development.
- Designed and optimized data pipelines and ETL workflows, ensuring efficient data retrieval, preprocessing, and secure management.
- Part of the top-performing team in internal evaluations, managing scrum board tasks and priorities, upheld data security protocols, and facilitated seamless project delivery through technical collaboration and agile methodologies.

Achievements

- In the Top 6 performers of Buildathon2024 working on AutoML solution, competing against 35+ teams.
- Completed 170+ questions on LeetCode, LeetCode 50-day badge, June 2024 Monthly Badge.

Extracurricular

Manager and Content Head (Software Development Club) (Dec 2023 – Jan 2025)

- Led a large-scale hackathon with 300+ participants, fostering real-world software solutions, and organized technical events with Google and TensorFlow speakers, including a frontend workshop for 200+, showcasing event management and mentoring skills.

Additional

Languages: Fluent in Hindi, English, Marathi.

Certifications & Training: (1) Mastering Data Structures and Algorithms using C and C++ (Udemy)
(2) Neural Networks and Deep Learning by Andrew Ng (Coursera)