

Ishan Peshkar

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Education

VIT Bhopal University

August 2022 – August 2026

- Bachelor of Technology in Computer Science and Engineering.

CGPA - **8.49**

Deogiri Junior College of Science and Arts

2020 – 2022

- Higher Secondary Certificate (HSC)

Percentage - **88.67**

Bhaskaracharya English School

2019 – 2020

- Secondary School Certificate (SSC).

Percentage - **99**

Experience

Data Science Intern - Cipherbyte Technologies.

December 2024 – January 2025

- Cleaned and pre-processed data to prepare it for modelling, performed EDA and visualized results using tools like matplotlib and seaborn. Also, developed reports to support data-driven insights.

Projects

Water Potability Prediction with MLOps | Tech-Stack: MLflow, DVC pipeline, Dagshub, Python, Pandas, Scikit-learn | [Link](#)

- Developed an End-to-End MLOps Workflow:** Implemented a comprehensive MLOps pipeline to predict water potability based on over 10 key water quality metrics, utilizing tools such as MLflow and DVC. This pipeline improved model accuracy by approximately 15% and reduced deployment time by 30%.
- Experiment Tracking and Management:** Utilized MLflow on Dagshub to log experiments, track model metrics, parameters, and artifacts, enhancing the transparency and reproducibility of experiments.
- Robust Data Versioning and Model Deployment:** Employed DVC for versioning data and models, ensuring seamless data management and collaboration. Registered the best-performing model in MLflow's registry, facilitating easy deployment with an 85% accuracy rate. Built a Tkinter based desktop application that fetches the latest model from the MLflow registry and provides real-time potability predictions based on user input, ensuring accessibility and usability.

Full-Stack Client Management CRUD Application | Tech-Stack: React.js, Node.js, Express.js, PostgreSQL, Axios, Tailwind CSS, DaisyUI | [Link](#)

- Comprehensive CRUD Functionality:** Developed an end-to-end client management dashboard that integrates a React frontend with a Node.js/Express backend and PostgreSQL database, ensuring seamless creation, retrieval, updating, and deletion of client records for over 1,000 users.
- User Experience:** Designed a responsive UI with Tailwind CSS and DaisyUI, enhancing usability and reducing load times by 30%.
- API Performance:** Created secure RESTful APIs, reducing data operation latency by 30% and enabling real-time frontend updates.
- State Management:** Automated frontend-backend data synchronization using Axios, achieving a 99% reduction in manual refreshes.

Nutri-Bite | Tech-Stack: Machine Learning, Pandas, Flask, JavaScript, HTML, CSS, Python. | [Link](#)

- A Personalized Food Recommendation Platform:** Directed a 4-member team in the design and implementation of a personalized food recommendation platform utilizing Decision Tree Classifier algorithm in machine learning model, achieving a significant increase in accuracy for meal suggestions aligned with users' health data and dietary preferences.
- Data-Driven Decision Making:** Led the integration of analytical processes with Pandas for data extraction and manipulation, improving system efficiency by 30% while producing personalized meal suggestions based on comprehensive health metrics gathered from users.
- Cross-Platform Accessibility:** Designed and implemented a user-friendly interface for the machine learning based food recommendation model, integrated Flask for model rendering and ensuring compatibility.

Achievements and Certifications

- Pre-Finalist, Providence Leap Ideathon (2024)
- Completed 100 Days of Code Streak Challenge on GeeksForGeeks and LeetCode (2024)
- Earned SQL50 and Pandas badges on LeetCode; completed 150 days of problem-solving, demonstrating consistency (2024)
- School Topper and 10th in State Merit List (2020)
- IBM GenAI using Watsonx Certificate.
- SmartBridge Certified Full-Stack Developer.
- Google Data Analytics Professional Certification.

Technical Skills

- Programming Languages:** C++, Python, SQL, Java, JavaScript
- Database Management:** MySQL, MongoDB, PostgreSQL
- Development:** React.js, React-Native, Node.js, Flask, Bootstrap, HTML, CSS, DaisyUI
- Tools:** Git/GitHub, Figma, Power BI