DIPTI MAHAKALKAR

+91-8149504772
dipti.mahakalkar2307@gmail.com
https://www.linkedin.com/in/dipti-mahakalkar/

ABOUT ME

Driven AI/ML student at Vellore Institute of Technology with strong foundation in basic concepts. I love harnessing the power of AI and leading development. With excellent communication and interpersonal skills, I thrive in collaborative and independent work environments.

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY   2021 – 2025

Bachelor's Degree in CSE with specialization in Artificial Intelligence and Machine Learning
CGPA - 9.02

Bhavan's BVM   2018 – 2020

Higher Secondary school
CGPA - 8.8

St. Claret School   2018

Senior Secondary school
CGPA - 9.2

SKILLS

- **Programming Languages**: Python, C++, Java, Kotlin
- **Web Development**: HTML/CSS, JavaScript, ReactJS, Node.js, Express.js
- **Databases**: MongoDB, MySQL, PostgresSQL
- **Design & UX**: Figma, Adobe Photoshop
- Others: GraphQL, Docker

CERTIFICATIONS

- Google Cloud Computing Foundations - Google
- Basics of Geocomputation and Geoweb Services - ISRO & IIRS Dehradun
- Applied Machine Learning in Python - Coursera
- Responsive Web Design - FreeCodeCamp
- Foundations of UX Design - Coursera

ACHIEVEMENTS

- **Authored** a research paper titled "Automatic Brain Tumor Detection using Machine Learning," published in Springer (2023).
- **Published a research paper** titled "Design and Development of a Martian Rover for Astronaut Safety and Surface Exploration" in IEEE; presented at the Aero Conference in Yellowstone, Montana, USA (2024). Reference: https://ieeexplore.ieee.org/document/10521083
- **Secured third place** in the 'ROBUSTA - 2.0' E-Phantoms Competition.
- **Earned** HackerRank 5 Star (Gold Badge) in Problem Solving, SQL & Java.

PROJECTS

Workout Tracker   (June 2024)

- Developed a single-page application (SPA) using Angular, JavaScript, and HTML to track and manage workouts.
- Implemented user input functionalities for capturing user name, workout type, and workout minutes.
- Integrated advanced features including search by name, filter by workout type, and pagination for efficient data management.
- Visualized workout progress with dynamic charts to enhance user experience and data interpretation.
- Reference: https://github.com/21Dipti/workout-app

E - Commerce   (April 2024 - June 2024)

- Engineered an eBay-like e-commerce auction site allowing users to create auction listings, submit bids, leave comments, and add items to a watchlist.
- Ensured security and data integrity by incorporating user authentication.
- Reference: https://github.com/21Dipti/e-commerce

Noor   (June 2022 - October 2022)

- An automatic Brain tumor detection model implemented with supervised machine learning, achieving an accuracy of 97%.
- Designed and developed the backend architecture for Noor, utilizing technologies like Python, HTML/CSS, JavaScript, ReactJS, TensorFlow.
- Collaborated with frontend developers to integrate backend services seamlessly, ensuring robust performance and scalability.
- Reference: https://github.com/ProjectNoor/Noor

INTERNSHIPS

Ethnus - MERN Stack Web Development Internship   (August 2023 - October 2023)

- Developed robust web solutions and gained proficiency in new technologies and frameworks, including MongoDB, Node.js, and Express.js.
- Designed the frontend of a final project—an e-commerce site for digital appliances.
- Successfully collaborated with the team to achieve project goals.

VISA - Token Service Technology Virtual Experience Program   (December 2022 - January 2023)

- Completed practical tasks in: Card Authentication, select Visa API for use cases.

ADDITIONAL INFO

- Hobbies: DIY art, Interior Designing, Travel
- Language: English, Hindi, Marathi (all Advanced level)