Mukta Mahesh Vedpathak

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EDUCATION

Course	College / University	Year	CGPA / %
B.Tech.(CSE)	Indian Institute of Technology, Dharwad	2022-Present	8.15
Class XII (HSC)	Acharya Academy, Baramati, Maharashtra	2020-2022	90
Class X (CBSE)	VPEMS, Baramati, Maharashtra	2007-2020	98

ABOUT ME

- I am a third-year Computer Science student at the Indian Institute of Technology, Dharwad. Experienced and proficient in IoT, NLP, AI and ML, App development and Web development, I bring hands-on experience in multiple programming languages and technologies to the table. Eager to bridge theory with practical application, I am excited about contributing my skills to a real-world setting.

EXPERIENCE

- **Intern | Acharya Academy Pvt. Ltd.** ([Project](#)) — December 2024
  - *App Development: Outing Request Management System for Hostels*
  - Developing an app for Students, Wardens and Parents to streamline outing requests for students by integrating with Google Sheets API.
  - Implemented Flutter-based frontend and Flask-based backend.
  - Secure APIs to fetch student details and record outing requests, ensuring data integrity and real-time updates.
  - Utilized service account authentication and enforced validation for reliable and efficient data handling.

- **Intern | IIT Dharwad** ([Project](#)) — June 2024-Nov 2024
  - *Guide: Prof. Rajshekhar V. Bhat*
  - IoT for precision agriculture (soil moisture sensing device).
  - Developed and deployed IoT nodes using nRF52840 boards for soil moisture data collection and cloud communication using ESP32.
  - **Built a chatbot** that can pull data from a CSV file and respond based on user input for farmers to monitor and interact with their fields.
  - Made a **prediction model** that can predict the next day's soil moisture based on historical data using algorithms like Linear Regression and Neural networks

- **Intern | IIIT Dharwad** ([Project](#)) — June 2024-August 2024
  - *Guide: Prof. Animesh Chaturvedi*
  - Natural Language Processing (LLM).
  - Conducted web scraping and data cleaning to extract Sanskrit words from ancient scriptures, translated and transliterated them into other Indian languages, and analyzed their similarities using various algorithms.

- **Intern (Coding Tutor) | CodeKaroYaaro** — March 2024-April 2024
  - *Online International Coding school for kids*
  - Taught children of age 6-15 basics of coding in Python and Scratch.

PROJECTS

- **Bank Churn Prediction Model** ([Project](#))
  - Developed a bank churn prediction model using feature engineering and various machine learning algorithms (KNN, logistic regression, decision trees, random forest, SVC, and neural networks).
  - Identified the most accurate predictive model to enhance customer retention strategies.

- **Text to speech convertor** ([Project](#))
  - Developed a text-to-speech converter using the pyttsx3 library, enabling offline conversion of text into natural-sounding speech with adjustable voice and speech rate.
- **Connectify** ([Project](#))
  - Social media website highlighting Front-end implementation.
  - Created Connectify, a visually appealing website reminiscent of Instagram, using HTML and CSS. The project is currently focused on the user interface, with plans to implement additional functionalities in the future.
- **Calculator** ([Project](#))
  - Calculator for basic arithmetic operations.
  - Designed and implemented a visually striking calculator website with full functionality using HTML, CSS, and JavaScript. The project showcases a seamless blend of aesthetics and practicality, demonstrating proficiency in front-end web development.

SKILLS

- **Programming Languages**: C++, C, Python, Java, Bash, Dart
- **Frameworks and Libraries**: Flask, Bootstrap, jQuery, Node.js, EJS, React.js
- **Web Technologies**: HTML, CSS, JavaScript
- **Tools**: LaTeX, Beamer, GitHub

COURSES UNDERTAKEN

- **Computer Science**: Data Structures and Algorithms, Design and Analysis of Algorithms, Discrete Structures, Software Systems Lab, Computer Architecture, Artificial Intelligence, Automata Theory, Deep Learning, Operating Systems, Data Bases and Information Systems
- **Mathematics**: Calculus I, Calculus II, Differential Equations I, Linear Algebra, Introduction to Probability, Data Analysis
- **Others**: Quantum Physics and Applications, Electricity and Magnetism, Engineering Graphics Lab, Introduction to Electrical Systems and Electronics, Digital Systems, Economics

OTHER ACTIVITIES

- Best Girl Student 2024 at IIT Dharwad.
- A member of the Web Development team and Senior Council of Institute Innovation Council
- A member of Design and Content Team of Parsec4.0 - Technical Festival of IIT Dharwad
- NSS student-coordinator at IIT Dharwad
- Member of Academic Senate(UGAPEC) at IIT Dharwad
- An active member of Dance, Literary, Dramatics, Fine Arts and Journalism club
- An ex-member of the editorial board of the official quarterly magazine of IIT Dharwad-"Sambandh"
- Winner of 'Hack the Future' contest organized by Career Development Cell IIT Dharwad.
- Anchor at grand events like the visit of the Honourable Vice President of India to IIT Dharwad.