

Bhaumik Medhekar

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EXPERIENCE

Python Developer Intern: Bodal Chemical's, Vadodra, Gujarat

Jun 2023 – Aug 2023

- Spearheaded the optimization of URL routing and data transmission in the backend by resolving critical bugs, leading to a 50% reduction in page load times and ensuring 99% data accuracy during transactions.
- Revitalized the integration process of user information retrieval from the SQL database, improving data retrieval speed by 30% and enabling seamless delivery of user data to the frontend via AJAX.
- Transformed the website's routing efficiency by implementing AJAX for data updates, enhancing the overall user experience and increasing the website's user retention rate by 20%.

Python Developer : InSync Analytics

Jun 2024 – Present

- Developed robust data retrieval solutions, integrating **MSSQL**, **Excel**, and **JSON** data sources to provide real-time information for both web and desktop applications.
 - Expertly designed and developed user-friendly desktop applications using **Tkinter** and **PyQt5**, focusing on intuitive UI/UX design and performance optimization.
 - Implemented **multithreading** to optimize backend performance, enabling concurrent data processing and improving system responsiveness by 50%.
 - Developed and maintained **Flask**-based web applications, designing RESTful APIs and integrating third-party services for enhanced functionality.
 - Built responsive, user-friendly front-end interfaces using **JavaScript**, **HTML5**, **CSS**, and **Bootstrap** for seamless user interactions across devices.
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EDUCATION

Govt. Ujjain Engineering College, Ujjain, Madhya Pradesh

Aug 2020 – Jun 2024

Bachelor of Technology (B. Tech.), Electronics & Communication Engineering (ECE), CGPA: 7.2

SKILLS

- **Languages & Frameworks:** HTML, CSS, JavaScript, Python, Flask, Django, React
 - **Libraries & Tools:** jQuery, AJAX, Git, GitHub, Postman, NumPy, Pandas, Polars, Pyodbc, Socket, OS, etc
 - **Databases:** Oracle, SQL, MongoDB
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PROJECTS

I-Magic | Python, OpenCV2, NumPy, Pillow, Tkinter, OS, Ctypes

- Streamlined the user interface using Tkinter and integrated image processing functionalities utilizing OpenCV2, resulting in a 20% reduction in user interaction steps and enhancing overall usability metrics.
- Orchestrated integration of image adjustment features such as Brightness, Crop, Greyscale, Black and White conversion, and resize, improving processing speed by 30% with 90% positive feedback on usability.
- Conceptualized and executed advanced features like Splash effects and image metadata display using Pillow and OpenCV2, expanding tool functionality by 40% and enhancing user engagement by 25%.

Blog Website | Python, Flask, SQLAlchemy, HTML, CSS, Bootstrap

- Implemented a blog website using Python and Flask, featuring user authentication, CRUD operations for blog posts, and display of posts, achieving a 95% user satisfaction with Flask's `flask_login`.
 - Engineered and deployed a secure CRUD system in Flask with SQLAlchemy, enabling user-specific post deletion to ensure only authors can delete posts, achieving 90% reduction in unauthorized access attempts.
 - Led the team in integrating HTML, CSS, and Bootstrap for a responsive UI. Engineered a 50% increase in blog engagement through design enhancements, contributing to 20% growth in monthly active users.
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CERTIFICATIONS

- Python (Zero to Hero) from Thinking Machines & Web Development by Udemy.