PARTH SAMIR DALVI

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EDUCATION

Purdue University, Fort Wayne, IN   **Aug 2024 – Present**
Master of Science in Computer Science
Relevant coursework: Algorithm Design, Software Project Management, Machine Learning, Software Engineering, Full Stack Web Development

Savitribai Phule Pune University, Pune, India   **Aug 2020 – Jul 2024**
Bachelor of Engineering in Computer Science
Relevant coursework: Data Structures and Algorithms, Database Management, Computer Networks and Security, Operating Systems

WORK EXPERIENCE

Data Analyst | WeAgile Software Solutions, India   **Mar 2024 – May 2024**
- Developed Data Visualization pipelines to analyze large datasets, leading to a 15% improvement in operational decision making
- Performed advanced Data Manipulation and cleansing to support accurate trend analysis and reporting
- Conducted quality analysis using surveillance camera data to monitor visitor entry/exit metrics across multiple client properties.
- Created dashboards and visual reports to present key insights to stakeholders, enhancing transparency and performance tracking

Web Development Intern | Elite Softwares, India   **Jan 2023 – Mar 2023**
- Completed training with Full Stack Web Development along with Python and Django Framework
- Designed and Developed a scalable website using Python and Django for a product based enterprise
- Collaborated with clients to define requirements and ensure seamless integration with backend APIs
- Maintained 1000+ concurrent users for the product website

SKILLS

Languages: C++,C#, Java, JavaScript, Python, SQL, PowerShell, HTML, CSS, MongoDB, React, Express
Tools: Microsoft Excel, Microsoft Word, AWS, Git, Bitbucket, JIRA, Visual Studio Code, Visual Studio Preview, PyCharm
Technologies: MERN, REST APIs, SaaS, YOLOv5/v7/v8, Google Cloud, DevOps, NLP, ROSS, MATLAB, Django, PostgreSQL

PROJECTS

FiBucks | fibucks.com | Personal Expense Tracker
- Technologies Used : Tailwind CSS, Next.js, MongoDB, Chai, Mocha, GitHub, Vercel
- Built an application to record, categorize, and visualize income expenses using dynamic charts
- Enabled secure user authentication and provided mobile friendly tracking capabilities
- Set and monitor monthly or weekly budgets

Temple Management System | React Website
- Temple Management System is an integrated digital solution designed to streamline temple operations, including administration, donation management, event coordination, and community engagement
- It leverages advanced software tools to provide a centralized, user friendly platform that enhances the efficiency of temple activities and improves communication with devotees
- Built for small temple networks a like it can scale to meet the needs of any religious organization
- Digitalized paper based workflows, enhancing efficiency and data management by 30%

Real Time Audio-Enabled Object Detection System with NLP - Based Interaction
- Applied deep learning techniques (YOLOv4) to accurately identify and detect objects in real-time within complex environments achieving an object detection accuracy rate of 98%
- Integrated the Gemini API for real-time NLP communication, enhancing user interaction with an online search module for object descriptions and applications

Indian Air Force Project | Anti Drone Systems
- Implemented object detection for runway debris removal using custom designed drones equipped with vacuum
- Led Swarm Intelligence design, contributing to real time drone surveillance capabilities, Received special appreciation letter from Squadron Leader Manoj Kumar

CERTIFICATIONS

Published Research Paper: Audio Based Object Detection System| DOI: 10.55041/IJSREM29989
Presented Project as the youngest team to Indian Air Force
Smart India Hackathon Hardware Edition Grand Finalists
Best Volunteer for Helping Hearts Organization