Siddhesh Dumre

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Summary

Computer Science student with 2+ years of experience in ML, DL, NLP and Website Development. Proficient in Python, MERN stack, and deep learning frameworks. Led cross-functional teams to deliver impactful solutions, optimizing performance and enhancing user engagement.

Education

MIT World Peace University 2022-2026
Bachelor of Technology (BTech), Computer Science
Coursework: Data Structures, Algorithms, Operating Systems, Distributed Computing

Skills

- **Programming Languages**: Python, JavaScript, C/C++, HTML, CSS
- **Frameworks & Tools**: Node.js, Express.js, React.js, TensorFlow, Keras, Pandas, Matplotlib
- **Databases**: MySQL, MongoDB
- **Technologies**: Web Development, Deep Learning, Natural Language Processing (NLP), Data Visualization (Tableau, PowerBI)
- **Soft Skills**: Leadership, Team Management, Problem-Solving, Event Organization
- **Cloud Computing**: EC2, S3, DynamoDB

Work Experience

Hyperbolic Designs Present
Co-Founder,
- Successfully overseen and delivered 7+ projects, encompassing e-commerce platforms, portfolio websites, and Startups/ Small Business websites.
- Implemented advanced web development technologies to enhance performance and user experience, increasing website speed by 30 percent and user engagement by 25 percent

Entrepreneurship Cell
Head of the Technical Team
- Led a team of 5 to victory in Smart India Hackathon, developing a cutting-edge solution for real-world challenges.
- Developed and deployed three websites in under 20 days, boosting online engagement and streamlining event information access - startupexpomitwpu.com, ecellmitwpu.com, vc-conference.netlify.app

Projects

Advanced Deepfake Analysis and Recognition Engine
- Developed an AI-powered deepfake detection model using MTCNN and ResNet50, achieving an 85-89% accuracy in detecting manipulated videos.
- Integrated a TypeScript-based UI with Node.js backend for seamless user interaction and real-time video analysis, reducing processing time by 30%.
- Utilized TensorFlow and Keras for model implementation, enhancing model performance and accuracy.

Legal Case Similarity Analysis from Text - Contextual Representation and Similarity
- Implementing InLegalBERT, InCaseLawBERT, and CustomInLawBERT models with fine-tuning for enhanced legal case similarity detection
- Designing a similarity identification LLM model that identifies cases with common facts, rulings, or legal principles
- Applying Prompt Engineering techniques to improve case summarization and argument extraction for better accuracy

Real-Time Stock Performance Visualization and Prediction Module
- Built a stock prediction model using Random Forest Regressor (100 estimators), achieving 95.91% accuracy in predicting stock prices.
- Integrated real-time stock data from Yahoo Finance API and developed interactive visualizations with Matplotlib, enhancing trend analysis and prediction reliability.
- Used Python libraries like Pandas and Scikit-Learn to process large datasets efficiently.