Durga Prasad Kamireddi

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Technical Skills

- Programming Languages: **Python, JavaScript**
- Front End Devlopment**:HTML, CSS, React, Redux, Redux Toolkit**
- Back End Development: **NodeJS, Express, Api's, MongoDB, SQL, Postman, Git, GitHub**
- Computer Science Fundamentals**: Data Structures and Algorithms**
- Miscellaneous: **MachineLearning, DeepLearning**

Internships

Innomatics Research Labs February 2023 – May 2023
Data Science Intern|Python,Flask,MachineLearning

Plant Disease Detection system

- Developed a plant disease detection system by leveraging **machine learning**, applying data-cleaning algorithms, building backend applications with Flask, and enhancing image quality using advanced technologies
- Implemented data cleaning algorithms, utilized Flask for backend development, and collaborated with seniors to improve code readability and project structure. Iteratively refined methods based on feedback to optimize system performance
- **Delivered a solution with 85% accuracy**, making it viable for drone integration. Improved project efficiency and scalability by applying clean coding practices and robust project structuring.

Projects

Social Media May 2025-June 2025

- Developed and deployed a full-featured **social media web application** with **React and Redux Toolkit**, implementing reusable, responsive UI components and API integrations.Implemented user authentication ,post management, and user profile updates with reusable and responsive UI components.
- Engineered core features including **user authentication (email & Google OAuth)**, role-based access control, post management, follow/unfollow, password reset, and personalized content views.
- Designed and implemented interactive engagement systems such as likes/dislikes, comments, and dynamic home and user-specific pages.
- Built and optimized backend APIs using **Node.js and Express,** leveraging **Multer & Cloudinary** for image handling, fs module for automated folder creation, and **soft delete** for data lifecycle management.
- Ensured secure and scalable backend by integrating **role-based authentication**, structured data storage, and efficient API design for seamless frontend-backend communication.

Composite Material and Characterization January 2024 – May 2024

- Developed a composite characterization system using advanced machine learning algorithms to enhance material property prediction accuracy and efficiency.
- Collected and curated diverse composite material datasets, selected and fine-tuned machine learning models, and optimized system performance through rigorous training and testing processes.

Education

Acharya Nagarjuna University (ANU) August 2020 – July 2024

B. Tech, Mechanical Engineering with Minors **Computer Science and Technology**
Guntur, India **GPA:8.6/10**

Course Work

- Engaged in Python programming language at Innomatics Research Labs.
- Pursued Data Science training at CodinGrad.
- Engaged in Machine Learning at Coursera
- Engaged Data Analysis at Innomatics Research Labs.