Dharma Acha

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EDUCATION

State University of New York at Buffalo **Aug 2023 - Dec 2024**
Master of Science in Computer Science and Engineering **USA**
Courses: Machine Learning, Deep Learning, LLM, Computer Vision, NLP, Algorithms Analysis and Design

Jawaharlal Nehru Technological University **Aug 2017 - May 2021**
Bachelor of Electrical and Electronics Engineering **India**
Courses: Python, Data Structures, C Language

SKILLS

Programming Languages: HTML 5, CSS 3, JavaScript, TypeScript, C, C++, Python, R
Methodologies, DevOps & Cloud Platforms: Agile Development, CI/CD, Microsoft Azure, SaaS
Tools: Git**,** Postman**,** Sass, Android studio, Visual Studio, Anaconda, Google Colab, JSON, Docker, NPM
Frameworks & Databases: React JS, Redux, Node JS, Express JS, Streamlit, FAST API, MongoDB, MySQL, PostgreSQL
Libraries: AJAX, Pandas, PyTorch, TensorFlow, NumPy, Jest, jQuery, Mongoose, Bootstrap, Matplotlib, Seaborn, Scikit-Learn

PROFESSIONAL EXPERIENCE

Cognizant Technology Solutions Corp - **Nov 2021 - Aug 2023**
Full Stack Developer **India**
Frontend | React JS, Express JS, Redux**,** Bootstrap, Web Development

- Fast-tracked delivery of 2 critical projects for WALGREEN client by developing over 50 unique **UI/UX** components with **React**, reducing bounce rates by 30% and a 40% reduction in customer support queries.
- Simplified and improved frontend operations by restructuring functions with **Agile Methodologies**. Documented the entire frontend setup for clarity and ease of future maintenance.
- Collaborated with **cross-functional team** to design Defect Tracking System (DTS), enhancing system usability, maintainability, and reliability. Achieved a significant improvement of 20% in the accuracy of defect estimation per project.

Backend | MongoDB, Mongoose, Microservices

- Key contributor to backend enhancements by integrating the Defect Tracking System application with **MongoDB**, optimized data flow by 40%. This integration significantly enhanced system efficiency and reliability, reducing downtime by 15%.
- Optimized **Microservices** for the **Product Inventory Management System**, achieving a 25% reduction in **REST API** latency and a substantial increase in throughput by implementing efficient indexing and caching strategies, and contributing to a 20% increase in operational efficiency.

Testing | Jest, Unit Testing, CI/CD, Test Driven Development

- Enhanced team confidence and deployment capabilities by implementing advanced testing methodologies. Developed extensive test suites using **Jest** and **Unit test**, achieving over 80% code coverage and integrating with **CI/CD pipeline**.
- Significantly improved the testing process, leading to a 20% reduction in deployment errors and a more reliable software delivery timeline.

Intern- **Jun 2021 - Nov 2021**
Online Store Web Application | HTML 5, CSS 3, JavaScript, ES6, Bootstrap **India**

- Developed a dynamic E-Commerce **Web Application** with **responsive design**, resulting in 30% improvement in user experience metrics and achieved a superior level of user-friendly online shopping experience contributing to a 25% increase in customer satisfaction ratings.

PROJECTS

Employability Classification of Job Applicants | Pandas, Scikit-Learn, Streamlit, Matplotlib

- Deployed a cutting-edge web application, employing predictive and classification machine learning models using **logistic regression**, **decision trees**, and **random forests** to revolutionize the hiring process.
- Achieved an impressive accuracy rate of 92% in predicting candidate suitability, contributing to a competitive edge in the job market and enhancing overall organizational productivity.

Student Finance Database | PostgreSQL, Python

- Designed and implemented a resilient Student Finance Database, centralizing and organizing financial data for 10,000 students, ensuring efficient data collection, secure storage, and optimized retrieval mechanisms.
- Enhanced database performance through **indexing**, **query optimization**, and **data partitioning**, reducing query response times by 40% and enhancing system scalability by 50%.

Exploring Explanability in Deep Neural Network | Pandas, Python, PyTorch, SHAP, Grad-CAM

- Developed explainability techniques for **VGG 13 Neural network** model to increase transparency and trustworthiness in AI decision-making, crucial for healthcare and autonomous driving applications, and achieved exceptional accuracy of 95%.

LEADERSHIP/ACTIVITIES

- **EEE Graduate Organization Student Coordinator:** Representing 120 EEE students and facilitating inter-departmental collaborations at Jawaharlal Nehru Technological University.
- Spearheaded a series of **IEEE** workshops and seminars on emerging technologies such as **IoT** and **AI**, increasing member engagement by 40%.