Dhruv Rajesh Tadkal

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Education

University of Texas at Arlington **Aug 2023 – Present**
Master's in Computer Science GPA:3.7/4 *Arlington, Texas*

Nitte Meenakshi Institute of Technology **Aug 2019 – May 2023**
Bachelor of Engineering in Computer Science GPA:8.2/10 *Bengaluru, India*

Skills

Programming Languages: Python, C, C++, Java, R
Web Technologies: HTML5, CSS3, JavaScript, PHP, Bootstrap, NodeJS, ReactJS, AngularJS, VueJS, Django
Other Technologies : Docker, Flutter, GIT, Heroku, WCAG (Web Content Accessibility Guidelines), Adobe Photoshop, Adobe Premiere
Database: MySQL, MongoDB, PostgreSQL, Firebase
Others: Data Structures and Algorithms

Experience

1. Student Assistant **Jan 2024 – June 2024**
Department of Electronic and Information Resources, UTA *Arlington, Texas*

- Evaluated over 150 pieces of electronic content to ensure accessibility for students and faculty at the University of Texas at Arlington.
- Completed more than 100 VPAT assessments within a 5-month period.
- Handled over 200 service requests in ServiceNow, with a resolution time averaging 48 hours, and tested over 75 web pages using JAWS to ensure compatibility with WCAG standards.

2. Web Developer Intern **Aug 2022 – Oct 2022**
Finiteloop *Bengaluru, India*

- Designed a 10-page website for a bird conservatory tool using HTML, CSS, and JavaScript. Completed the project within a 8-week timeline and ensuring cross-browser compatibility across 5 major web browsers.
- Visualized data from a classification algorithm processing over 10,000 data points using GraphQL and PlotlyJS, enhancing data analysis speed by 25% and enabling real-time insights.

3. Machine Learning Intern **Sep 2021 – Nov 2021**
Eversoft Technologies *Bengaluru, India*

- Collaborated with a team working on an AI-powered research assistant utilizing Hugging Face, PyTorch, and LangChain to summarize research papers and extract key insights, achieving a ROUGE/L or BLEU score greater than 85% on summarization.
- Contributed to a team effort in developing a credit card fraud detection tool using a regression model, optimizing features and model parameters to achieve 94% accuracy in classifying fraudulent transactions from a dataset of 1 million+ entries.

Projects

Quantum Connect **Aug 2024**
UTA *Arlington, Texas*

- Built a research collaboration platform using React, Next.js, and MySQL, supporting 7 key functionalities and serving up to 500 concurrent users.
- Implemented secure login and registration functionality, facilitating user authentication for over 1,000 registered users and enabling efficient communication through chat, file uploads, and threaded discussions.
- Designed a grants and funding module that processed over $100,000 in funding requests, alongside an events dashboard that displayed 50+ research events per year, improving researcher engagement and collaboration.

Movie Recommender System **Feb 2024**
UTA *Arlington, Texas*

- Created a content-based movie recommender system using Python and cosine similarity, analyzing a dataset of over 10,000 movies to recommend personalized suggestions based on descriptive features.
- Optimized recommendation accuracy, achieving a similarity precision of 92% by comparing movie attributes such as genres, actors, and directors to user preferences.
- Streamlined the recommendation engine with efficient vectorization techniques, reducing computation time for similarity matching to under 200 milliseconds per query.

A Communication System for the Incapacitated **Jan 2023**
NMIT *Bengaluru, India*

- Developed a computer vision and machine learning system enabling communication for individuals with quadriplegia through eye blinks, using a regression model which achieved 92% accuracy.
- Presented at the 9th International Conference on Smart Computing and Communications (ICSCC) 2023 and published on IEEE.