Sriyan Madugula

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WORK EXPERIENCE & LEADERSHIP

MICHIGAN DATA SCIENCE TEAM - Ann Arbor, MI
Web Developer, GitHub Maintainer https://mdst.club/ *Mar 2024 – Present*

- Maintain the Michigan Data Science Team's website using Next.js to promote interactivity and engagement
- Facilitate office hours to support new MDST members in navigating Git repositories and resolving conflicts
- Build a comprehensive Data Science Toolbox detailing essential tools and techniques like Google Colab, web scraping, and linear regression models, empowering team members to streamline project workflows

HELIVOX - Troy, MI
Co-Founder, Software Engineer *Mar 2022 – July 2023*

- Constructed www.helivox.com using JavaScript for creating 100+ catalogs of data on high school courses/clubs, ranging from time commitment to career preparedness, to forward diverse academic interests
- Organized a team of 7 article writers publishing advice for college applications through leading by example
- Expanded the catalogs and our USP to 15 additional schools throughout the nation in less than 6 months

PROJECT EXPERIENCE

PORTFOLIO WEBSITE GENERATOR - *HTML, CSS, JavaScript* *Jun 2024 - Present*

- Develop a web application in Python using Flask, integrating PDF parsing to extract and categorize resume content, to allow users to generate and customize a portfolio website tailored to their resume
- Implement REST API endpoints to manage user authentication, resume upload, data storage, and portfolio generation, leveraging React for the front-end interface and Tailwind CSS for responsive design
- Integrating a chatbot feature using Rasa for user assistance on platform's functionalities

NOTEWORTHY.AI - *React.JS* https://devpost.com/software/noteworthy-ai *Apr 2024*

- Designed a full-stack application that converts user-uploaded notes into concise exam cheat sheets using React and Bootstrap for frontend, and Python with Express.js for the backend
- Created a seamless pipeline to convert PDF notes into images, extract content using the Gemini 1.5 Pro API, and compile the data into a well-organized LaTeX document, significantly enhancing user experience

FAKE NEWS CLASSIFIER - *Python* *Feb 2024 – Mar 2024*

- Engineered and fine-tuned an end-to-end BERT-based model to detect fake news articles, achieving 98% accuracy on a dataset of over 40,000 news articles, thereby contributing to combating misinformation
- Executed efficient processing and preparation of textual data using pandas, scikit-learn, and PyTorch
- Applied transfer learning by fine-tuning the BERT model pre-trained on a large corpus, utilizing GPU acceleration for training, and optimizing hyperparameters to enhance model performance and scalability

MULTIPLE HEURISTICS SOLVING TSP - *C++* *Jan 2024*

- Returned the Minimum Spanning Tree given graph coordinates using Prim's and Kruskal's algorithm
- Optimized suboptimal Arbitrary Insertion with Branch-and-Bound to prune unpromising path permutations

EDUCATION

UNIVERSITY OF MICHIGAN – Ann Arbor, MI *Expected May 2026*
Bachelor of Science Engineering, Computer Science; Cumulative GPA: 4.0/4.0
Activities: MHacks, MEG Consulting, Cantor Coding & Trading, MRacing Autonomous, Shipman Society
Relevant Courses: Discrete Mathematics, Algorithms/Data Structures, Probability/Statistics, Foundations of CS

SKILLS

Languages/Frameworks: C++, Java, React.JS, Next.JS, Python, Pandas, NumPy, Scikit, PyTorch, SQL
Awards: Shipman Scholarship, Dean's Honor List, Branstrom Freshman Prize (Top 5% of Freshman Class)

ADDITIONAL INTERESTS

Wikiracing, Formula 1, Tennis, Infrastructure, GeoGuessr, the Internet, Neural Networks, Astronomy, Filmmaking