ALAM VAMSIDHARA REDDY

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OBJECTIVE

I have a strong background in technology, project management, and leadership, currently pursuing a B.Tech in computer science. I have worked on creative software development projects and managed teams to complete them successfully. I have a track record of success in hackathons and academic projects, and I am interested about applying cutting-edge technologies to tackle practical challenges.

EDUCATION

- **Woxsen University** *2022 - 2026*
  Bachelors of Technology Kamkole, Telangana, India
  - GPA: 87.5%
- **Sri Medha V** *2020 - 2022*
  Intermediate Hyderabad, India
  - Grade: 93.4%
- **Montessori English Medium School** *2020*
  Secondary Education Kurnool, India
  - GPA: 97.5%

PROJECTS

- **Project A: [Computer Vision System for Food Waste Estimation]** *January 2025 - Present*
  Tools: [Detectron2, Python, TensorFlow, OpenCV, Scikit-learn, Pandas, Numpy, Matplotlib]
  - Developed a deep learning-based system to track food consumption and waste in university messes, promoting sustainability.
  - Implemented food item recognition and portion detection to analyze student intake patterns.
  - Designed a waste measurement module to compare served food with actual waste, providing insights to minimize food wastage.
  - Built a computer vision-based model for real-time food classification and waste estimation, ensuring accurate tracking and analysis.
- **Project B: [Resource provisioning for IoT in Fog computing]** *July 2024 - October 2024*
  Tools: [Python, Scikit-learn, Pandas, Numpy, Matplotlib, Fog computing platform]
  - Developed a dynamic resource provisioning model for IoT services in fog computing, achieving improved resource utilization and reduced energy consumption.
  - Implemented a workload prediction and resource scaling feature, processing a large volume of IoT requests to ensure efficient fog node allocation.
  - Created visualizations comparing SLA violation rates and workload trends to optimize system performance.
  - Developed a fog node scheduling component for easy integration with the fog computing environment, enabling real-time decision-making on resource allocation.
- **Project C: [Unmasking Deception]** *January 2024 - April 2024*
  Tools: [Python, BERT, Streamlit, Scikit-learn, Hugging Face, MySQL]
  - Developed a news classification system, achieving improved accuracy with deep learning and NLP techniques.
  - Implemented data profiling and analysis, processing large-scale datasets for enhanced model performance.
  - Created visualizations of model accuracy to compare the performance of traditional and BERT models.
  - Developed models for easy integration with the news classification system, enabling real-time result display.
- **Project D: [Mart]** *February 2023 - June 2023*
  Tools: [HTML, CSS, JS, PHP, MySQL]
  - Developed an online grocery store system to enhance user experience, inventory management, and order fulfillment.
  - Implemented HTML, CSS, JavaScript, PHP, and MySQL to optimize payment security and customer support, achieving improved customer satisfaction.
  - Created user authentication, search functionality, and order tracking components, ensuring seamless shopping and tracking for users.
  - Applied data flow analysis to ensure efficient order processing and inventory management.

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

[S.1] A Vamsidhara Reddy, et al. (2024). **Mitigating Misinformation: A Comparative Analysis of Machine Learning Models for Fake News Detection**. Manuscript submitted for publication in *Atlantis Press*.

SKILLS

- **Programming Languages:** Python, Java, C+
- **Web Technologies:** HTML, CSS, JavaScript, PHP, MySQL
- **Database Systems:** MySQL, MongoDB
- **Machine Learning:** RF, Naive Bayes and SVM
- **Deep Learning and NLP:** BERT, Detectron2, Mask R-CNN, Model optimization
- **Research Skills:** Fog Computing, Resource Provisioning, Machine Learning Models, Experimental Design

HONORS AND AWARDS

- **Winner** *October 2024*
  NEXT IN TECH powered by gradRight Knowledge Partner LEHIGH University [🌐]
  - Topic: AI-based Personalized Learning Path Generator
  - Developed a prototype that utilizes artificial intelligence to analyze a student's skills, interests, and academic background to create a customized learning path. AI suggests courses, resources, and study plans to help students achieve their educational goals efficiently

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CERTIFICATIONS

- **Cloud Virtualization, Containers and API'S** *October 2024*
- **Introduction to Web development** *April 2024*
- **Introduction to NoSQL Databases** *November 2024*
- **Dynamic Programming, Greedy Algorithms** *November 2023*
- **Introduction to Big Data with Spark and Hadoop** *Feb 2025*

ADDITIONAL INFORMATION

Languages: English, Telugu and Hindi
Interests: Event Planning, Book Reading, Peer Education and Peer Support