S. Kasinadh Sarma

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Summary

AI/ML Developer with a strong foundation in deep learning frameworks, computer vision, and natural language processing. Proven ability to develop and implement AI solutions for real-world problems. Proficient in TensorFlow, PyTorch, and Scikit-learn. Seeking a challenging role in the field of AI/ML, where I can contribute to the development of innovative and impactful solutions.

Experience

Security Researcher   **TryHackMe**

- Engaged in TryHackMe to enhance cybersecurity skills, focusing on practical application of security concepts.

- Completed various rooms and challenges, covering topics like web security, network security, and cryptography.

- Developed proficiency in using security tools and techniques for vulnerability assessment and penetration testing.

Summer Trainee   **Intel Unnati**

- Participated in Intel Unnati's summer training program and gained insights into various machine learning projects.

- Developed an AI project on road object detection using the COCO dataset with a GUI-based GTK version.

- Conducted research and development in AI, machine learning, and other related areas.

Projects

Urban Development AI | GitHub

- AI-driven analysis and optimization of urban infrastructure and development planning.

- Uses deep learning models for land-use classification and predictive analytics.

Safe Browsing | GitHub

- Developed a secure browsing extension that detects phishing and malicious websites using ML algorithms.

- Implements real-time analysis for improved cybersecurity and safer internet browsing.

Emergency Vehicle Detection | GitHub

- Designed a system to detect emergency vehicles and optimize their routes using AI-based traffic analysis.

- Utilizes YOLO for object detection and reinforcement learning for pathfinding.

Diabetic Retinopathy Detection | GitHub

- Developed an AI model to detect diabetic retinopathy in retinal images using deep learning.

- Implements CNNs for image classification and severity grading.

Crop Prediction System | GitHub

- AI-based crop prediction model using environmental and soil parameters.

- Helps farmers make informed decisions based on predictive analytics.

Food Safety Analysis | GitHub

- AI-powered food safety detection system for quality analysis and contamination identification.

- Uses computer vision and deep learning for real-time monitoring.

RESEARCH ARTICLES

- **NextGenJax: A Comprehensive Analysis of State-of-the-Art Machine Learning Libraries and Models | Link**

- **Revolutionizing Machine Learning: The Emergence and Impact of Google's TPU Technology | Link**

Skills

- **</> Programming Languages:** Python, Java
- **⚙ AI/ML Frameworks:** TensorFlow, PyTorch, NLP, Computer Vision, gym, JAX, Flax, Scikit-learn
- **⚡ Machine Learning Techniques:** Deep Learning, K-Nearest Neighbors (k-NN), Machine Learning Algorithms
- **🔧 Tools:** Git, Docker

Education

Parul University   Vadodara
B.Tech in Computer Science and Engineering (Cyber Security)   November 2020 - March 2024
CGPA: 7.46

Certifications

- Introduction Of IoT - **NPTEL**

- Introduction to programming Using Python - **HackerRank**

- Cybersecurity Roles, Processes & Operating System Security - **Coursera, IBM**

- Networking Basics - **Cisco**

- Networking Devices and Initial Configuration - **Cisco**

- Introduction Of Cyber Security - **Cisco**

- Google Cloud - **Google Cloud Skills**

- Google Professional Cyber Security - **Google Professional Cyber Security**