S. Kasinadh Sarma

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Summary

Cybersecurity Researcher and Developer with expertise in AI, IoT, and penetration testing. Experienced in leading projects like EVMOVA and SunsetOVA with published research in security and machine learning. Proficient in TensorFlow, PyTorch, Scikit-learn, and OpenCV, with strong problem-solving skills and a focus on AI innovation of NeuroFlex.

Education

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

Sri Chaitanaya JR. college — Guntur
Intermidate — June 2018 - May 2020
CGPA: 6.9

Sri Chaitanaya Techno School — Guntur
10th — June 2017 - May 2018
CGPA: 7.7

Experience

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.

Security Researcher — TryHackMe

- Engaged in TryHackMe to enhance cybersecurity skills and applied these to data science, emphasizing data security measures like encryption and threat detection.
- Worked on data-related cybersecurity projects, implementing secure data pipelines and improving understanding of data security in machine learning models.

Projects

PikasuBirdAI Developer | GitHub

- Developing an AI-powered robotic bird with advanced flight, sensing, and autonomous capabilities for versatile aerial applications.
- Implementing transformer-based models for detection and threat assessment, alongside AI systems like FastThinkNet and OpenAI Whisper for real-time processing.

NeuroFlex | GitHub

- Developed a flexible neural network framework designed for rapid prototyping and experimentation.
- Integrated with major deep learning libraries to optimize performance and scalability.

AlgoNexus | GitHub

- Developed and implemented machine learning-driven algorithms for intelligent trading strategies.
- Created a robust system for analyzing market data, backtesting strategies, and automating trade execution.

EVM.ova Penetration Testing | Link

- Conducted penetration testing to assess the security measures of the EVM.ova virtual machine.
- Identified vulnerabilities and simulated attacks to evaluate resilience.

RESEARCH ARTICLES

- **EVM.ova Security Assessment: A Penetration Testing and Vulnerability Analysis Project | Link**

- **Sustainable Oxygen Production and Plant Cultivation Strategies for Future Earth Scenarios | Link**

- **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**

- **Chip Technology and Development: Advancements in Nanotechnology and Beyond | Link**

SKILLS

- **Programming:** Python, JavaScript, Java, C/C++
- **Web Development:** React, Node.js, HTML5, CSS3
- **AI/ML:** TensorFlow, PyTorch, NLP, Computer Vision, gym, jax, flax
- **Cybersecurity:** Penetration Testing, Network Security
- **Cloud:** Google Cloud Platform, Docker, Kubernetes
- **Tools:** Git, Jira, Wireshark, Metasploit
- **IoT:** Raspberry Pi
- **Soft Skills:** Leadership, Project Management

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**