textOsFtextTOsFliningLFliningTLFtextosflininglftabulartabproportionalprop
fontspechyperref

Vlaksh16

vlaksh16@asu.edu City, State
LinkedIn GitHub

Summary

Highly motivated and detail-driven software developer with a strong background in machine learning and data science. Proven experience in designing and building scalable data pipelines and infrastructure for multimodal Large Language Models (LLMs). Skilled in programming languages such as Python, Java, and SQL, with expertise in frameworks like TensorFlow and PyTorch. Proficient in data analysis, machine learning, and natural language processing.

Skills

- Programming languages: Python, Java, SQL
- Frameworks and tools: TensorFlow, PyTorch, NumPy, Pandas, Scikit-Learn, Metasploit, Geopandas, Flask
- Data Science and Machine Learning: Deep Learning, Natural Language Processing, Malware Analysis
- Research skills: Literature Review, Cross-Sectional Study Design, Data Interpretation, Scientific Writing

Experience

- **Research Intern, VIT Chennai and Global Health Research and Innovations Canada** (Dec 2022 - Aug 2023)
  - Conducted extensive research on the role of intelligent edge computing and AR/VR in achieving health care equity in the era of the Internet of Medical Things (IoMT)
  - Utilized advanced research methodologies and data analysis techniques to conduct a systematic review of the literature, and assess the applications and challenges of these technologies in the context of IoMT and digital health
- **Data Analyst Intern, Chennai, India** (May 2023 - July 2023)
  - Performed comprehensive data analysis on sales data from 2017 and 2018 utilizing advanced Machine Learning techniques
  - Identified and interpreted sales trends through sophisticated data visualization and classification methodologies
- **Research Intern, AMRUTANJAN HealthCare ltd.** (May 2023 - July 2023)
  - Conducted research on the applications and challenges of intelligent edge computing and AR/VR in the context of IoMT and digital health
  - Utilized advanced research methodologies and data analysis techniques to assess the role of these technologies in achieving health care equity

Projects

- **Diabetic Retinopathy Detection - Smartphone Fundoscopy** (Dec 2023 - May 2024)
  - Developed and validated the EfficientNetB0 model for diabetic retinopathy detection
  - Utilized advanced machine learning techniques to enhance diagnostic accuracy and efficiency
  - Addressed challenges in real-time data acquisition and image quality from smartphone fundoscopy
- **Network-Based Malware Detection** (Jan 2023 - May 2023)
  - Collaboratively developed an efficient malware detection method using weighted k-means clustering and feature selection
  - Identified significant network traffic patterns and trained a machine learning classifier to distinguish between legitimate and malicious traffic
  - Achieved high detection rates with minimal false positives, outperforming state-of-the-art strategies and enhancing network security

Education

- **Master of Science in Data Science, Analytics and Engineering, Ira A. Fulton Schools of Engineering at Arizona State University** (Aug 2024 - Present)
- **Bachelor of Technology in Computer Science and Engineering with specialization in AI and Machine Learning, Vellore Institute of Technology** (Aug 2020 - May 2024)

Certifications

- **TryHackMe: OWASP TOP 10 - Understanding every OWASP vulnerability** (Nov 2022)
- **Google through Coursera: Operating Systems and You: Becoming a Power User** (Mar 2022)