Vishal Shivakumar

Student

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About Me

I am a Proactive and organized Computer Science student with strong interpersonal skills, seeking a challenging internship to leverage technical abilities. Proficient in Machine Learning with Python and Data Analytics with R, including tools like TensorFlow, PyTorch, ggplot2, and dplyr. My projects, such as an AI chatbot and a security platform using edge AI, demonstrate practical application of these skills. I excel in teamwork and am eager to contribute to real-world technical challenges.

Educational Credentials

- **PSG Institute of Technology and Applied Research** (2023-2027)
  - Bachelor of Technology in Computer Science and Business Systems
  - CGPA: 8.7
- **SRV Public School** (2018-2023)
  - Graduated with 92% in 12th

Projects

- **AIDEN (Artificially Intelligent Dynamic Emotional Nexus):** An AI chatbot leveraging the OpenAI API, integrated with reinforcement learning and Q-learning algorithms. Designed to simulate human-like emotional responses and enable empathetic, context aware text-based communication. The chatbot mimics the client's tone and style when offline.
- **REAGAN (RFID-Enabled Emotion, Anomaly, Gesture, AI-driven Network for Organizational security):** REAGAN is an intelligent, autonomous platform designed to enhance organizational security and student well-being. Utilizing a distributed network of cameras combined with edge AI processing, the system performs real-time face recognition, emotion analysis, and gesture detection.

Skills and Tools

- **Machine Learning with Python:** Proficient in Scikit-learn, TensorFlow, PyTorch, and generative AI techniques.
- **DSA in Java:** Skilled in implementing Data Structures and Algorithms, focusing on performance optimization.
- **Data Analytics using R:** Experienced in ggplot2, dplyr, and tidyr for insightful decision making.
- **C Programming:** Solid foundation in efficient code writing for system-level applications.
- **SQL:** Foundational skills in SQL for Database Management Systems.

Patents

- **REAGAN (RFID-Enabled Emotion, Anomaly, Gesture, AI-driven Network for Organizational Security)**
  Patent pending — Expected Publication: June 2025
  Developed a smart security platform combining RFID-enabled tracking, facial recognition, emotion analysis, and gesture detection using edge AI. Designed to enhance institutional safety and promote student well-being via real-time surveillance and anomaly detection.

Certifications

- **Advanced Software Engineering Job Simulation by Walmart Global Tech**
- **Career Essentials in Data Analysis by Microsoft and LinkedIn**