KANNAN PERUMAL

Aspiring AI Developer | Skilled in Machine Learning, Deep Learning & Computer Vision
Coimbatore, Tamil Nadu, India
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Profile Summary

Proficient AI Developer with deep expertise in machine learning, deep learning, and computer vision, delivering scalable AI-driven solutions that drive efficiency and innovation. Skilled in deploying machine learning models, optimizing cloud infrastructure, and enhancing user-centric applications. Demonstrated success in leading projects from concept to completion, improving system performance, and reducing costs. Adept in Python, TensorFlow, PyTorch, FastAPI, OpenCV, and RAG techniques, with strong experience in natural language processing, generative AI, and predictive analytics. Proven ability to work effectively in Agile environments, ensuring timely delivery of high-impact projects while collaborating seamlessly with cross-functional teams.

Technical Skills

- **Programming Languages:** Python, C, Java
- **AI/ML Frameworks:** TensorFlow, PyTorch , OpenCV , Streamlet
- **Web Development:** React typescript , FastAPI, HTML, CSS, SQL
- **Other Skills:** Full-Stack Development, API Development, AI Deployment, RAG (Reinforcement, Adversarial, and Generative)

Internships

Zeb Private Limited, Chennai - Artificial Intelligence Intern   July 2024 - December 2024

- Engineered an AI-driven API to process cloud resource data and interface with AI models, delivering actionable insights that reduced cloud infrastructure costs by 20%, benefiting over 15 team members.
- Designed and developed a high-performance API that communicates with AI models to assess and optimize cloud resource usage, saving 40 hours of manual effort per month, while integrating advanced algorithms to enhance data mining efficiency by 25%.
- Led project management tasks, including defining project requirements, organizing cross-functional meetings, and implementing platform enhancements. Gained hands-on experience with AWS cloud resource management.
- Researched the potential integration of **web scraping** with AI to enhance data collection and provide more insightful analysis for optimization.
- Acquired skills in **React**, **TypeScript**, **HTML**, and **CSS**, applying them to full-stack development and AI-integrated interfaces.
- Performed statistical analysis of cloud resource data to identify patterns, enabling a 20% reduction in infrastructure costs and improving predictive analytics accuracy.

Projects

AI Web Scraper- Developed using Streamlit, Python, and AI Models | Github: pkannan2002/WEB-SCRAPER

- Developed an AI-powered web scraper using Streamlit and machine learning to extract user-defined content with 95% accuracy, enhancing data mining efficiency by 30%. Processed over 1,000 websites monthly to deliver targeted insights.
- Integrated **AI-powered content extraction** that processes user descriptions to identify and deliver specific website content, providing results in **CSV** and **Word formats** for easy use and analysis, all through a simple, user-friendly interface.

Zeb Pulse Python , Flask and AI Models

- **Developed an API for Zeb Pulse that analyzes cloud resource usage and provides AI-powered optimization suggestions, enabling clients to reduce costs by 25%, eliminate unnecessary resources, and improve cloud efficiency.**
- **Managed the project as an individual contributor**, overseeing project requirements, organizing meetings, and implementing platform enhancements. Gained hands-on experience with cloud resource management and platforms like AWS, learning best practices for optimizing and scaling cloud infrastructures.

Certifications

- AI Workshop for 30 days by NoviTech
- Machine Learning with Python
- Python Essentials 1
- Microsoft Certificate in Fundamental AI Concepts
- Object Detection and Recognition Using Deep Learning in OpenCV
- Introduction to Artificial Intelligence

Education

BTech Artificial Intelligence & Data Science- Rathinam Technical Campus,Coimbatore   **March 2020-March 2024**