Seetharaman Radhakrishnan

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Sheffield, United Kingdom

Summary

AI graduate with strong Python programming skills, specializing in machine learning and data analysis. Experienced in developing data pipelines, implementing algorithms, and integrating APIs. Passionate about leveraging AI to drive impactful solutions in public sector environments.

Experience

Sainsbury's May 2024–Present Sheffield, UK
Online Assistant

- **E**nsured order accuracy and quality by selecting and preparing customer orders.
- **P**rovided customer-centric service, accommodating specific product requests and fostering teamwork in a fast-paced setting.

Education

Sheffield Hallam University|2:1|Merit 2023-2024
Master of Science in Artificial Intelligence, Sheffield, UK

PSNA College of Engineering and Technology|First-Class Honors 2018-2022
Bachelor of Engineering in Electronics and Communication , TamilNadu, India

Projects |Link

- **Reconstructing Image from Brain Activity**|Jan 2024: Applied **deep learning** in PyTorch to reconstruct images using autoencoders from neural data.
- **Handwritten Digit Recognition**|Dec 2023: Developed classification model using **Random Forest** and **neural networks** with TensorFlow, Sklearn, NumPy, and Pandas.
- **Wall Following E-puck Robot**|Dec 2023: Designed **autonomous navigation algorithms** leveraging sensor fusion and Webots simulation.
- **Schwa Identification**|May 2024: Engineered **AI-driven pipeline** to improve ESOL pronunciation using techniques like MFCCs, RMS, ZCR, and formant frequency analysis.
- **Forecasting Depression in Students**|Sept 2024: Developed models to analyze student depression severity using machine learning, achieving 95.06% precision with Random Forest.
- **Heart Diseases Prediction**|Dec 2023 : Designed a **predictive analytics** system using **KNN and Random Forest**, incorporating feature engineering and data preprocessing.

Core Skills

- **Programming & API Development:** Python , REST APIs.
- **Machine Learning & Deep Learning:** Neural networks, generative AI, probabilistic generative models, LLMs, Transformer models.
- **Computer Vision & Image Processing:** AI-driven image reconstruction, content editing, and signal processing.
- **Programming & Frameworks:** Python, TensorFlow, PyTorch, Sklearn, Langchain.
- **Data Analysis& Optimization:** Feature Engineering, debugging, data pre-processings, and problem-solving.
- **Tools & Version Control:** Git, Google Colab, VS Code, Webots, Overleaf, MATLAB

Certifications

- **Python for Data Science, AI & Development**   Feb 2025|IBM|Coursera
- **Building a Personalized Chatbot with OpenAI and LangChain**   Feb 2025|LinkedIn
- **Hands-On AI: Build a Generative Language Model from Scratch**   Dec 2024|LinkedIn
- **Generative AI: Working with Large Language Models**   March 2024|LinkedIn
- **Introduction to Large Language Models**   Mar 2024|LinkedIn
- **Signal Processing Onramp**   Mar2024|MATLAB Coding
- **MySQL for Non-Programmers**   Nov 2024|LinkedIn

Additional Information

- **Visa Status:** Graduation Visa valid until December 2027

- **Open to Relocation:** Willing to relocate for the right opportunity