

RENGA RAJAN K

AI/ML Engineer



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GitHub



LinkedIn

About Me

I have 4+ years of experience in Machine Learning with a proven ability and history of developing full-stack machine learning projects. I'm curious about data, training Machine Learning/ Deep Learning models, and providing beautiful insights that are easily understandable. Hands-on experience in leveraging machine learning, deep learning, computer vision models to solve challenging business problems.

Professional Experience

Datanetiix Solutions Inc | AI/ML Engineer

04/2023 – Present

Key responsibilities:

- Design, develop, and implement end-to-end machine learning projects leveraging MLOps techniques, involving the development of robust pipelines for data processing, model training, and deployment.
- Develop and maintain automated workflows for model training, testing and deployment, optimizing for efficiency and repeatability.
- Collaborate with DevOps teams and other CFT teams to align machine learning processes with broader software development and deployment practices

Foxconn Hon Hai Tech | ML Engineer

09/2021 – 04/2023

Key responsibilities:

- Involved in Data Pre-processing Techniques such as data cleaning, EDA, visualizing the data, identifying outliers and making data ready for Machine Learning Techniques
- Experience in creating mature Data science pipelines encompassing Data standardization, Feature extraction, model validation and optimization
- Apply multiple ML&AI algorithm to get the better result for the problem

SV Global Logistics | Logistics Analyst

05/2019 – 08/2021

Key responsibilities:

- In this role, I'm responsible for creating and reviewing Standard Operating Procedures to streamline logistics processes. I stay informed about industry trends and utilize this knowledge in logistics planning. A key aspect of my role is closely monitoring the product flow, ensuring a smooth journey from origin to final delivery

Pfizer Healthcare India| Junior Officer

05/2015 – 02/2019

Key responsibilities:

- I create and follow monthly maintenance plans, track equipment breakdowns, figure out why they happen, and fix them. I work with vendors to upgrade systems, and I manage supplies and equipment efficiently.

Projects

Pathogen Monitoring System

- I successfully developed a disease prediction model using machine learning techniques as part of an independent project. Leveraging a dataset of medical symptoms, I employed a classification approach to predict various diseases such as fungal infections and hypertension. The project showcased my proficiency in data pre-processing, feature engineering, and model training, highlighting my ability to apply machine learning to real-world problems and contribute to healthcare solutions.

Chatbot

- I played a pivotal role in crafting a versatile system that combines rule-based interactions with advanced AI capabilities. This innovative approach ensures a seamless user experience by incorporating predefined rules for specific queries while harnessing the power of AI to handle more complex and nuanced conversations. By integrating natural language processing and machine learning, the chatbot adapts and learns from user interactions over time, continually improving its ability to understand and respond effectively.

Object Detection - Heart Beam Mobile Application

- Led the development of an Object Detection system using TensorFlow, training a robust model to identify and localize objects in images. Leveraged TensorFlow's capabilities to ensure accurate and efficient detection. The trained model was then converted to TensorFlow Lite (tflite) format for seamless integration into mobile applications.

Web Scraper

- Developed a robust Python-based web scraping application to extract data from LinkedIn profiles at regular intervals of every 4 hours. Implemented efficient scraping techniques to gather comprehensive details, enhancing data accuracy. The extracted information, including user profiles and relevant details, is stored efficiently in a MySQL database for easy retrieval and analysis.

Education Background

- **Bachelor of Computer Applications**
Pursuing the 3rd year at TNOU
2022 - 2024
- **Diploma in Mechanical Engineering**
P.A.C Ramasamy Raja Polytechnic College
2012 - 2015
- **SSLC**
st. John's Hr Sec School
2010 - 2012

Skills

- | | | | |
|--------------------|--------------|--------------------|------------------|
| • Python | • Pandas | • Scikit-Learn | • Git |
| • Machine Learning | • Numpy | • Keras | • Github Actions |
| • Deep Learning | • Matplotlib | • TensorFlow | • DVC |
| • Computer Vision | • MySQL | • Open CV | • MLflow |
| • NLP | • Flask | • Jupyter notebook | • Docker |