MARRI MAHENDRA

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**Experience Summary**

* **AI and ML:** Hands on expertise with ML algorithms, Rest API with Flask, Docker and Kubernetes, Apache spark, Deep Learning, Open CV, NLP, Microsoft Azure Fundamentals.
* **Python:** Got the Gold level Badge in Python coding in HackerRank platform.
* Hands-on experience in **Docker**. Can build and deploy the Docker containers and Orchestrate Docker containers using Kubernetes.
* knowledge on **MLOPS** Core Basics and Fundamentals. Continuous Integration (CI), Continuous Delivery (CD) and Continuous Training (CT) Pipelines in MLOPs

**Technical Skills**

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| Language | C, Python3, SQL, Java, C++ |
| IDE | Spyder, Jupyter Note book,Sagemaker |
| Package | Pandas, NumPy, TensorFlow, Keras, Matplotlib, Scikit learn, and other packages related to ML, Deep learning and NLP. |
| Data Base | MySQL, MongoDB |
| AI/ML Concepts | Machine learning models, Deep learning, Convolutional Neural Networks, Computer Vision Techniques, Natural Language Processing, MLOPS |

**Project Experience:**

**Project 1**

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| Project title | News Data Multiclassification |
| Duration | 2 months |
| Environment | Python, Machine learning,NLP,Deep Learning |

**Project Description:**

This project focuses on categorizing news articles into different classes (Sports, Entertainment, Movie, Political, and Business). The data was preprocessed using NLP's NLTK library to remove stop words and fill null values with spaces. A Deep Learning model with SoftMax activation function and Categorical Cross Entropy loss function was then applied to the cleaned data, as the output was a multi-class classification task. The model achieved an accuracy of 87.26%. The ultimate goal of the project is to classify incoming news articles into their respective categories

**Project 2**

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| Project title | Ensemble Deep Learning Approach for Software Maintainability Prediction |
| Duration | 6 months |
| Environment | Machine Learning, Deep Learning, Ensemble methods |

**Project Description**

The project is focused on predicting the maintainability of software systems. The data was preprocessed and two machine learning algorithms were used: Linear Regression and DNN (Deep Neural Networks). The Linear Regression algorithm achieved an accuracy of 80%, while the DNN algorithm using the Relu activation function and Adam optimizer with a learning rate of 0.1 achieved an accuracy of 85%. The best results from the training-based ensemble method were determined by selecting the lowest output value

Project 3:

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| Project title | Building House Price Prediction model using MLOps with Sagemaker and Jenkins for CI/CD Pipelines Johnson & Johnson |
| Duration | 3 months |
| Environment | Aws Sagemaker |

Project Description:

The project is building a house price prediction model for Johnson & Johnson using Random Forest Regression. The model has been registered in Sagemaker Model Registry and deployed as an endpoint, accessible through an API created using AWS API Gateway and Lambda. Model monitoring and scheduling is implemented to detect data drift and trigger retraining if necessary. The end user will be notified with an alarm in case of data drift.