PULIPATI AKHIL

Hyderabad,Telangana · pulipatiakhil213@gmail.com · +919848123370 · http://pulipatiakhil.github.io

Education

CMRCET Hyderabad
M.Tech computer science *GPA: 8.06* Sep 2018 - Sep 2020

University College of Engineering(KU) Kothagudem
B.Tech Computer Science *GPA: 63.2* Aug 2013 - Jun 2017

Experience

Ewig Technologies Hyderabad
Software Engineer Jan 2021 - Present

- My Role as a Data Scientist is to provide end to end forecasting solution for an early stage SCM software startup
- Researched on the best and scalable Statistical,Machine Learning and DL based forecasting techniques
- Reading the White papers related to ML and Forecasting, and keeping my self up to date with the latest and trending algorithms
- Experimenting with all the methods and evaluating them based on Error metrics and checking the scalability of algorithms
- Implemented a Flask application for Forecasting and Containerized the whole application using Docker
- Implemented Self-Supervised Learning based Hyper Parameter Tuning,instead of general Grid based approach which reduced the overall processing time by 60 times
- Implemented CI/CD Pipeline and Automated the Deployment Process with Jenkins and Kubernetes
- Implemented Demand Planning and Inventory planning Modules
- Undergone training on Supply Chain Management from SCM Leaders
- Responsible for the Maintenance of AWS instance related to Forecasting Engine

Serment Corporate Services Pvt Ltd. Hyderabad
Python Developer Sep 2017 - Sep 2018

- Worked on web development,responsible for the backend
- Worked on Mysql,flask,jinja, gunicorn ,pycharm Stack
- Delivering software as per the requirements of the client
- Worked in agile methodology

Skills

Programming Languages:	C++, Python, Java, SQL
Tools:	Git, Numpy, Pandas, Matplotlib, Sklearn, Pytorch, Tensorflow, Mysql, AWS
Forecasting Libraries:	Statsmodels, Prophet, Greykite, Darts, Kats, Pycaret, Autots, Merlion, Amazon Forecast
Web Technologies:	HTML5, Java Script, Flask, Django3, Postman
Big Data:	Hadoop, Pyspark

Projects

Detection Of Plant Diseases Using CNN *Python, Tensorflow, Keras, Jupyter, Numpy*
•Implemented a model which can detect some selected diseases of cotton crops Using neural networks
• Implemented a CNN using Keras Library and used Plant Village dataset for training and testing process.
• Model takes the image of a leaf as input and detects if it is diseased or not and further classifies to one of The labels in the dataset.

Clustering of Companies listed is Stock Market *python, scikit-learn, Numpy, Pandas, Matplotlib*
•Clustering of high performance companies is very important for investors, creditors, stock holders.
•Implemented a Machine Learning Model using K-Means Algorithm where I made my hands dirty on implementing the K-Means algorithm by myself.
•Model uses historical stock price data using data connectors included in pandas-datareader module.

Data Security using Steganography
• Implemented a basic GUI based LSB steganography Algorithm to encode and decode a secret text file, in Java.
• Takes secret text file and an image as input. converts both the image (RGB values) and text file in to bit stream.
• While encoding each LSB of the bytes of image is replaced with bits in the bit stream of text file inorder.
• In decoding the LSB's of the image byte stream is retrieved and combined and converted to text.