Midhilesh Momidi

OBJECTIVE-

To work in an organization where I can fully utilize my potential and my fast learning skills. To deliver the quality work thereby contributing growth of organization as well as mine.

CAREER SUMMARY

Data Scientist with experience of executing data driven solutions at creating Regression Models using Predictive Data Modelling and analysing Data Mining Algorithm to deliver insights and action-oriented solutions to complex business problems

WORK EXPERIENCE

Tata Consultancy Services as ML Engineer (2016 - Present)

Quest Diagnostics

- Migrating OpenVMS commands, scripts to Python
- Creating Web applications using Python, Django.
- Writing scalable code using Object Oriented Progamming in Python
- Creating custom framework to automate repetitive tasks using Python

Tools Used : AWS,Python,Django

Hospitality ->Aim: Fluidic Offer Bundling - Recommend best package to guests

- Decreased the latency of I/O bound operations when reading from S3 Bucket in AWS using Multithreading and Caching (2 sec to 0.0005 sec) is a drastic improvement
- Implemented ensemble models like Random Forest Classifier and improved accuracy by 6-7%
- Used different statistical techniques like Chi Square test to find the correlation between different features
- Worked Individually on end to end Deployment from data extraction to model deployment in cloud server
- Performed Feature Engineering on 60 datasets and identified the proper attributes for the model selection

Tools Used : AWS, Python, Tableau, Flask, Pyspark

Airlines -> Aim: Predict Estimated Time Arrival

- Predict the arrival/departure of the flight in +- 5 min
- Developed code for Geodesics (used to find the shortest distance between two points in Ellipsoidal Plane)
- Built Artificial Neural Networks on the data and achieved the accuracy to 80% from 65%
- Web scraped the data from the link provided by the client using Beautiful Soup library

Tools Used : AWS, Python, Pyspark, Flask, Neural Networks

CONTACT

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ONLINE PROFILE

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https://www.linkedin.com/in/midhilesh-momidi-136462135/

https://www.codechef.com/users/coderguy_123

https://www.hackerrank.com/midhileshmomidi?hr_r=1

SKILLS

- Python
- Machine learning
- Artificial Neural Networks
- MySQL
- Tableau
- Statistics
- Flask
- Django
- Natural Language Processing(NLP)
- Pyspark (MLlib)

Certifications & Awards

- Hackerrank Problem Solving Certification
- 165/10000 - Coding Club India
- CAT 2017 – 99.62
- Machine Learning Certified from Coursera
- 149/2135 - Hackerearth ML Challenge

Hobbies

- Watching Tennis
- Playing Video Games
- Playing Chess

Ultimatix AI Assistant

Aim: Segregating the tickets

- Worked on Topic Modelling (LDA) to segregate the tickets raised by the users by assigning those to respective categories and send the tickets to respective team
- Analysed the solutions provided for various tickets provided by the IT team and categorized into certain type of solutions for Documentation of various issues
- Successfully done feature engineering of text and generalised the code using Object Oriented Programming to automate and use the code as template

Tools Used : NLP, Spacy, Python, LDA

Optimizing NOx emission from IOT Sensor Data(Japanese Thermal Power Plant)

- Performed EDA and Descriptive Statistics on the raw data
- Performed Feature Engineering to generate many useful features
- Developed Model building framework for trying various Models like Linear Regression, Ridge, Lasso, Random Forest Regressor, Xgboost Regressor
- Built 80 predictive models for predicting various parameters of using IoT sensor data of the Power Plant. Best model was selected based on Adjusted R-squared and RMSE
- Finally was able to minimize the NOx emission(7%) and Cost(0.1%) suggesting changes in powerplant settings

Projects

Text Preprocessing Library for NLP

- Created own NLP package for many repetitive tasks and uploaded In Github for easy usage of the package for preprocess tasks https://github.com/Midhilesh4890/textpreprocess_nlp

Automate Exploratory Data Analysis

- Automated Exploratory Data Analysis by developing code in Python using Streamlit Library and deployed in Heroku Cloud Platform
- Statistics, correlation factors,info of datasets everything can be a click away https://standardeda.herokuapp.com/

EDUCATION:

B.Tech(Electronics) [2011-2015] **CGPA – 8.50**

Intermediate [2009-2011] **Percentage - 97.60**

SSC [2009] **Percentage - 92.67**