CUNEGUINES NIXON

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GIT URL
https://github.com/cuneguines/MEprojects.git

OBJECTIVE

An organised and diligent individual having recently completed a MS in Data Science. Adaptable, and a good problem solver with an aptitude for data analytics. A logical thinker with a methodical, creative approach and open to learning new skills. Currently seeking opportunities in data science, python developer and related roles,

EXPERIENCE

SOFTWARE ENGINEER(R&D), KENT STAINLESS LTD, WEXFORD
(May 2022 to present)

- Developing software tools to visually aid the manufacturing process. Dashboard for the KPI analysis and Forecasting.
- Project Manager/Leader in the development of the NCR system (A tool for Logging in the non-conformities in the manufacturing plant) from planning, analysis, design, development, testing, implementation, and maintenance.
- The tools used are PHP, HTML, jQuery, JS and SQL with git as the version control.
- Python For the data analysis and forecast (Machine learning Algorithms) in the Dashboard. Sql Database running in SAP business one.
- Tableau BI for the EDA.
- Python libraries such as pandas, NumPy for matrix manipulations, Streamlit for EDA, Statistics for initial inference, and Seaborn, matplot lib, plotly, and soon are used to undertake exploratory data analysis. Model evaluation using RMSE, Confusion matrix etc.

RESEARCH ASSISTANT(S/W), IERC, UCC
(May 2021 to April 2022)

- Participating in the delivery of Software tools for the Energy domain as part of a team. Using Python, PHP, SQL, MongoDB, and other programming languages.
- Participating in Data Science projects for optimization in the Energy sector, from data collection to analysis to prediction to optimization.
- Participated in BIM projects especially involving real-time energy data analysis and prediction using Python.
- Participated in the development of a people management tool in PHP, HTML, jQuery and SQL.
- Currently working on papers on ML and AI for cluster analysis (unsupervised)and Time series analysis of

to apply many learned skills and make a valuable contribution.

SKILLS

Quick leaner, Hardworking, Good interpersonal skills, team worker and think positive, and well versed in mathematics/statistics evaluation

OS -Windows, Windows, Linux, Mac-os. IOS, Android, Ubuntu

Programming Languages- C, C++, Java, Visual Basic 6.0, HTML, ASP, VB.Net, Python, Kubernetes, Rest API

Application- Excel, word, PowerPoint, Visio, Access. GitHub

Database- Oracle 9i, MS SQL, MongoDB, NoSql

Web scraping tools: Scrapy, Beautiful soup

Data storage- Hadoop,

Web Skills- CSS, HTML, Bootstrap, PHP, cross-browser compatibility

AWS-Cloud practitioner certified enrolled

energy data sets, which will be published in the near future.

- Models like kmedoids, DbScan and kmeans with dtw as the metrics, were used these in energy dataset to find the which two series behave in a similar way according to their energy consumption. Pyclustering libraries from Python. Predictive analysis (supervised)on temperature, humidity on consumption. The algorithms used were Regression algorithms Support Vector Regression, Lasso Regression and LSTM for the short-term prediction. scikit learn library for prediction.
- Contributed to the development of a publication management tool in PHP and MongoDB.
- Working in Publication/Project management tool developed in PHP, MongoDB.
- The tools heavily used for gathering data is Beautiful soup Python Library and Scrapy.
- Data collection via API (rest API); collecting data via API from the client-side device (for example inverter energy reading). API results in JSON format are then converted to csv, or written in SQL, and captured using pandas or sql connect. Using pandas' data frames and libraries for data cleansing and formatting and feature engineering.
- Python libraries such as pandas, NumPy for matrix manipulations, Streamlit for EDA, Statistics for initial inference, and Seaborn, matplot lib, plotly, and soon are used to undertake exploratory data analysis.
- Evaluate model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing.

DATA SCIENTIST INTERIM APTAGRIM.
Aug 2019 to Nov 2020

- Statistical Data Analysis, Data Mining, Predictive Modeling and Machine Learning Techniques on various projects.
- Involved in Data Exploration process, Collection, Cleaning, Analysis, Manipulation, Profiling, Visualization and building models for deployment, data mining, feature engineering.
- Hands on with Data Science libraries in Python such as Pandas, Numpy, SciPy, Scikit-learn, Matplotlib etc.

- Proficient in several supervised and unsupervised Machine Learning algorithms and Predictive Modeling including Regression, Logistic Regression, Decision Tree, Random Forest, Support Vector Machine (SVM), KNN, K-mean clustering, PCA.
- Proficient in building Predictive, Classification, Regression, Clustering/Segmentation for Supervised and Unsupervised models with Python.
- Evaluated model performance using RMSE score, Confusion matrix, Pattern recognition, Cross validation and Hypothesis testing to in simulated environment.
- Proficient in data visualization tools such as Python Matplotlib/Seaborn.
- Knowledge on Natural Language Processing (NLP).

DATA SPECIALIST MOORE ENVIRONMENTAL LTD IRELAND.
Feb1 2018 to April 2020

- Worked on improving business process to streamline IT to Business.
- Research conducted on existing core application to analyze challenges and propose new changes.
- Worked with new partner to develop new application based on python to expire the current VB based application with SQL backendfin, enhance reporting, consolidate data and provide integration with Machine Learning BI tools.

DEVELOPER SAPCLE, UAE.
Mar 15 2017 to Jan 2018

- Software Developer/Web developer with history of productivity and successful project outcomes•
- Successful team member for Digital transformation project with customers, developing new endpoints interface for customer interactions and innovative business processes.
- Developed application using CSS, HTML, .Net, Java Script. Etc.
- Adaptable and proficient in the design and programming of frontend application.
- Well versatile with backend database like Microsoft SQL, MySql.

EDUCATION

MASTER'S IN DATA SCIENCE
IT Carlow, Carlow Ireland

MASTER'S IN COMPUTER APPLICATIONS
The Indian Engineering Collage, Manonmaniam
Sundranar University, India.

BACHELORS IN SCIENCE (CHEMISTRY)
Kerala University, India.

VISA STATUS: STAMP4