Thirumaluri Omkaram

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Professional Experience

Webaffinity Technologies pvt.ltd. — Feb 2021 - present

Associate data Scientist. — **Bengaluru, India**

- I have 3 years' experience in data science and analyzing data, drawing insights in order to drive successful business solutions. Proficient knowledge in statistics, mathematics, and analytics.
- 2+ years of experience in data science and good knowledge in regression models & Classification models, Text mining.
- 1 years of experience in data analytics and good knowledge in python, MySQL.
- Active team member of analytical team developing models.
- Data Analysis & report preparation.
- Designing and implementing advanced analytics approaches including statistical models and machine learning algorithms, to answer business questions and drive actionable insights.
- Establishing scalable, efficient, automated processes for model development, model implementation, model validation and large-scale data analysis.
- R&D for domain-oriented concepts and exploring new techniques and implementing them, according to the requirements.
- Building applications and deploying them by Flask and Stream lit.
- Hands on experience on data engineering like Data Cleaning, Data Binning, preparing the Data for Analysis which includes coding, transformation, Missing values treatment, outlier treatment.
- Good Knowledge in Survival Analytics and time series models like ARIMA, etc.
- Good Knowledge in NLP (Natural Language Processing) and Text Mining Sentiment Analysis.

Educational Qualification

Prakasam engineering College (JNTUK) — 2016 - 2020

B-TECH in mechanical engineering — **Kandukur, AP**

- Aggregated with 7.45cgpa

Technical Skills

Programing Language	**Python (pandas, NumPy, matplotlib, Seaborn, Sklearn, And Tensor Flow).**
Deep Learning	Artificial Neural Networks (**ANN**), Recurrent Neural Networks (**RNN**), **Convolutional Neural Networks (CNN).**
Machine Learning	**Regression** (Linear, Ridge, Lasso and Elastic Net), **Classification** (Decision Trees, Logistic Regression, Naïve Bayes, k-nearest neighbors), **Ensemble methods** (Bagging, Adaboost, Functional Gradient Boosting), **Clustering** (K-means, Mixture Models), and **Associate rules.**
Data analysis	Statistical analysis, Hypothesis testing, Natural Language Processing, survival analysis and Time series.
Data Mining	Data reduction, Clustering, Classification, Anomaly detection, Text mining.
Big Data Tools	**Apache Spark.**
Frameworks	**Flask and Stream lit.**
Data Modelling Tools	**SQL(MySQL), MS- Word, and MS-Excel.**
Visualization tools	**Tableau, power bi.**

Projects

KPPC | Python3, Pandas, NumPy, Sk-learn, My SQL, Stream lit. Feb 2021 – Present
Associate data scientist

- Implemented various machine learning techniques to predict Main Steam Temperature, Main Stream Flow Rate and Main Steam Pressure. To generate maximum power in a day with less failures (Device Equipment Failures).
- Explore the domain functionality of various predictors through domain experts.
- Drawing insights from the analysis using various descriptive analytics & Visualization.
- Finalized the reliable predictors for model building.
- Identified some unique patterns for anomalies in the history data which are further used for creating new features like lagging features and features based on statistics. Thus, these features are used as input to the model.
- Developed a root cause model and ML algorithms to detect the cause of the anomaly which in turn reduces the failure in the equipment.

UNESCO | Python3, Pandas, NumPy, Sk-learn, My SQL, Flask. June 2021 – Dec 2021
Associate data scientist

- Implemented ASHA Healthcare Job Satisfaction and Motivation, Patient Experience and Satisfaction.
- ASHA Feedback Survey and Beneficiary Analysis. Collect data and identify data sources. Analyze huge amounts of data, both structured and unstructured.
- Create solutions and strategies to business problems. Work with team members and leaders to develop data strategy. To discover trends and patterns, combine various algorithms and modules.
- Present data using various data visualization techniques and tools. Investigate additional technologies and tools for developing innovative data strategies.
- Choose the suitable machine learning algorithm and train the model. consider the different models results and find out the best model.
- Presenting results in a clear manner on display because to easily understand the clients. Propose solutions and strategies to tackle business challenges**.**

Rakports | Python3, Pandas, NumPy, SK-Learn, My SQL, Stream lit. Jan 2021 – July 2021
Data analysis

- Implemented a root cause analysis to find the influencing tags from the group to prevent device or equipment breakdown.
- Explore the domain functionality of various tags through domain experts.
- Implemented anomaly log which gives an idea about the tags that led to abnormality in different groups.
- Implemented basic summary statistics to track the behavior of the Device.
- Implemented Device Score in Shift Wise to track the performance of the Whole Device.

Certifications

- Trained in Python with Data science.
- Trained in applied robotics control (ARC) 3. O.