TULASI DAKSHAYANI ADIREDDY

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SUMMARY:

3yrs of professional experience solving data problems, Strong knowledge of ETL, hypothesis testing, Statistics, Data mining, Data Modelling, A/B testing along with using Advanced Excel, SQL, BI tools, MS suite. High expertise in analyzing, and interpret trends or patterns in complex datasets, preparing business value reports aligning with goals based on data analysis.

PROFESSIONAL EXPERIENCE:

Data Scientist Intern: VOLANTSYS Inc, Chicago, IL — May 2019-Apr 2020

- Developed an end to end framework and worked on below projects to bring the data science functionalities with bridging the gap between the cross functional teams as 5 different phases Business Understanding (Excel, SQL), Data Mining, Data Preparation, Data modelling, Deployment and Reporting. worked with clients and provided Machine Learning solutions and challenging factors with insights.
- Interpreted optimization algorithms and statistical techniques to maximize overall performance of Machine learning model, dealing with challenges of data quality, privacy, and confidentiality; also considering organization specific problem, data, success criteria, and the results.
- Analyzed different real-world problems with the machine learning & NLP models using **Azure ML** studio, RStudio.
- **Developed a Scoring Model for client AMAI(American Medical Association):** Provided Insights and recommendations with a detailed exploratory data analysis on AMAI data and prepared the data, extracted meaningful business inferences and scored the important features in the data and also suggested the interventions for different AMAI plans with a scoring model.
- **Predictive Analytics on Senior Health Care (Center for Medicare and Medicaid service):** Predicted the Drop out patient status whether a patient is willing to drop out their services or able to continue their service in the hospital using classification algorithms.
- **Customer Sentiment Analysis:** Used **Text analytics (Natural Language Processing)** to gain deep insights across customer support and identified the customer sentiments from the feedback responses proved with the case study on time delivery prediction detecting the customer response on the product delivery whether it is delivered on time or not.
- **Predicting the risks of Readmission into the Hospitals:** Developed a prediction algorithm to identify the hospitals with highest number of risks of hospitalizations and the infections which causing the patients to readmit.

Junior Data Scientist: Tata Consultancy Services, Hyderabad, India — Aug 2016 - Aug 2018

- Developed Analytics solutions with real-time datasets collected from the sensors, IOT devices like Intel Edison, using Machine Learning algorithms, Computer Vision(Image Processing) .Performed data analysis, with querying, mining, cleansing, Hypothesis testing, Modelling, Feature Engineering, A/B testing. Also Performed statistical analyses and predictive analytics with ETL and BI dashboard reporting.
- **Home Automation using Machine Learning (Natural language processing):** Developed a set of built-in smart home capabilities and skills which includes the ability to turn on the Electrical Equipment (lights, fan) turn up the heat and access smart cameras among the others. Customers can access these abilities by making the voice requests.
- **Crop Disease Identification (Computer vision and Deep Learning-Image processing):** Predicted the crop-disease pair given just the image of the plant leaf using deep learning (convolutional neural networks) and computer vision in google cloud with inception model.

EDUCATION: Master of Computer Science (*Data Science*) — Aug 2018 - May 2020
ILLINOIS INSTITUTE OF TECHNOLOGY Chicago. IL

SKILLS:

Coding Skills: PYTHON, R, C++, Data Structures, Algorithms, OOPS
Cloud: Google Cloud Platform -Data Engineering with Python (Docker Container, Kubernetes)
Libraries: Numpy, Pandas, Scikit Learn, Scipy, Pytorch, Matplotlib, seaborn, ggplot, OpenCV, Tensorflow, Statsmodel, Plotly, keras
Databases: SQL, Postgre-sql;
IDE: Jupyter notebook, Spyder, Anaconda, Rstudio;
Data mining skills: Descriptive statistics and Inferential statistics [Hypothesis testing], Optimization, Normalizations, Transformations;
Machine Learning Algorithms: Clustering -[K-means], Classification- [Decision trees, Logistic regression, KNN, Naïve Bayes, SVM, XG-boost], Regression - [Linear, Multilinear, Random forest]
Deep Learning Algorithms: CNN, RNN, Optimization Algorithms
Tools: EXCEL, MS-office, Tableau, Power-BI, Visio

CERTIFICATIONS, LINKEDIN & GITHUB PROFILE

LinkedIn: TABLEAU TRAINING, ADAVANCED SQL FOR DATA SCIENTISTS;
Udemy: STATISTICS FOR DATA SCIENCE AND BUSINESS ANALYSIS,
Github profile: https://www.github.com/TFA19SCM98A/
Portfolio: https://sites.google.com/view/dakshayaniadireddy/about
Linkedin: https://www.linkedin.com/in/tulasi-dakshayani-adireddy/