

JAYANTH DASAMANTHARAO

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EDUCATION

Rutgers University, *Masters in Data Science*

Sept 2022 - May 2024 | New Brunswick, NJ

Relevant Coursework: Statistical Learning, Statistical Modeling and Computing, Neural Networks, Machine Learning (math-oriented), Data Structures and Algorithms, Data Wrangling (R), NLP, Data Mining. Projects Overview: [Portfolio](#).

Andhra University

2017 - 2021 | Visakhapatnam, India

Bachelor of Technology in Electrical and Electronics Engineering

Research Paper: Self Driving Cars Using Image Processing and Deep Learning.

TECHNICAL SKILLS

Programming: R, C++, Scala, SAS, **Tools:** TensorFlow, Pytorch, Numpy, Pandas, Scikit-learn, Matplotlib, Seaborn.

Data Engineering: Data Warehousing, Postgres, MongoDB, Oracle Db, SQL, MySQL, SQLite, PySpark, Hadoop.

Deep Learning and Machine Learning (ML): Regression, Clustering, Random Forests, NLP - Nltk, Keras, Hugging Face Transformers, spaCy, LLM's, NER, Computer Vision, Recommender Systems, Language Models, CNN, RNN, Feedforward, Transformers, LSTM, BERT, GPT.

Cloud Services and Data Analysis: AWS Athena, Amazon Lambda, Redshift, Amazon S3, RDS, Data Wrangling, EDA, PowerBI, Tableau, RedCap, SAS - statistical tests using Proc ANOVA, Proc GLM, Pearson correlation and others. SAS macros, Proc SQL for data retrieval.

PROFESSIONAL EXPERIENCE

Harvest Software Solutions, LLC, *Data Science Intern*

June 2023 - Sept 2023 | Jacksonville, Florida

Real-time Ad Campaign Optimization:

- Leveraged data-driven insights and state-of-the-art machine learning techniques to enhance the effectiveness of ad campaigns and drive increased revenue. Acquired and extracted data from Aniview and CMCBeacons using APIs.
- Handled datasets with over 5 million rows, involving EDA to uncover patterns, relationships within the data, data cleaning, outlier handling, data format correction. Calculated CPM and added it as a critical metric to the dataset.
- Employed data visualization, summary statistics, and hypothesis testing to gain insights into ad campaign performance.
- Utilized XGBoost for predictive modeling and achieved a low Mean Squared Error (MSE). Implemented a 5-fold cross-validation approach to evaluate model performance and avoid overfitting. Leveraged H2O's AutoML to automate model building processes, selecting the best-performing model for CPM prediction.
- Employed AutoML tools to automate labor-intensive tasks, including feature engineering and hyperparameter tuning, selecting the best-performing model for CPM prediction.

Accenture Solutions Pvt. Ltd., *Application Development Associate*

June 2021 - Aug 2022 | Hyderabad, India

Database Analyst - Regeneron Inc:

- **Data Analysis:** Leveraged Athena and Redshift for clients data analysis to detect two-thirds of integrity exceptions, enhancing process efficiencies.
- Designed Python pandas data pipelines to automate the script, reducing support calls by 50% and ensuring efficient storage and maintenance of customer campaigns.
- Led a cross-functional team of 3 in Agile development, driving enhancement in data visualization.
- **Customer Data Warehousing:** Performed business analysis, leading to enhanced data warehousing, improved data accuracy, and a substantial reduction in data processing duration.
- Developed SQL queries via SQL Workbench to cater the business needs, thereby boosting data quality and precision.
- Implemented technological solutions, including DDL updates and the deployment of data into production servers.

RESEARCH PROJECTS

Bayesian Classification on Diabetes dataset, *GitHub Repository*

Rutgers University, 2023

Implemented Bayesian logistic regression models to predict patients' diabetes status, utilizing the PyMC3 library to apply informative prior distributions. Evaluated model performance using recall and f1-score metrics, comparing outcomes across logistic regression with uniform priors and normal distribution priors.

Twitter Search Application, *GitHub Repository*

Rutgers University, 2023

Created a user query-responsive tweet retrieval system by integrating dual databases: Postgres for user data management and MongoDB for tweet storage. Optimized data storage and retrieval efficiency while implementing advanced caching strategies for superior system performance.

Auto Insurance Fraud Detection, *GitHub Repository*

Rutgers University, 2023

Implemented ML models, including Random Forests, KNN, Logistic Regression, SVM, Decision Tree, and XGBoost. Due to the importance of minimizing false negatives, KNN was chosen as the best model with a recall rate of 97%.