

JAYANTH DASAMANTHARAO

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EDUCATION

Rutgers University, *Masters in Data Science, GPA:3.5/4*

May 2024 | New Brunswick, NJ

Relevant Coursework: Statistics: Statistical Modeling & Computing, Stat Learning; Neural Networks, Machine Learning, Data Structures & Algorithms(Python), Data Wrangling (R), NLP, Data Mining. Projects Overview: [Portfolio](#).

Andhra University,

2017 - 2021 | Visakhapatnam, India

Bachelor of Technology in Electrical & Electronics Engineering

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

TECHNICAL SKILLS

Programming: Python(problem-solving), R, Scala, Linux **Quantitative Analysis:** ggplot(R), Tableau, Statistical Modeling, Causal Inference Probability and Inference, Hypothesis testing, Bayesian Statistics, Predictive Modelling, SAS.

Deep Learning(DL): Convolutional & Deep Neural Networks, NLP, LLM's, Computer Vision, AI, BERT, Pytorch.

Machine Learning (ML): Regression, Time Series methods, Ensemble Methods, Gradient Boosting trees, MLOps.

Data Engineering: SQL, Data Warehousing, Spark, Hadoop, AWS(Athena,Redshift,Lambda,S3), GCP(BigQuery, Cloud Storage, Dataproc), Snowflake, Airflow. **Data Analytics:** PowerBI, Tableau, Shiny, Matplotlib, Seaborn, Data Wrangling.

Data Architecture: Database Design, Data - Modeling, Integration,Governance Warehousing; Normalization, ETL.

PROFESSIONAL EXPERIENCE

Data Science Intern, *Harvest Software Solutions, LLC*

June 2023 - Sept 2023 | Jacksonville, Florida

Real-time Ad Campaign Optimization:

- **Real-time Data Extraction using API's:** Extracted data from Aniview and CMCBeacons via APIs. Managed 5M+ rows, performed EDA, and incorporated CPM for critical performance evaluation.
- **Data Analysis:** Utilized visualization, summary stats, and hypothesis testing for insights into ad campaign performance.
- **Predictive Modeling:** Developed **XGBoost for predictive modeling** achieving low MSE. Applied **5-fold cross-validation to prevent overfitting**. Utilized H2O's AutoML for automated model selection,
- **Automation and Techniques:** Used **AutoML for automated tasks**, like feature engineering and hyperparameter tuning, selecting the optimal model for CPM prediction. Evaluated software applications to enhance automation processes.

Application Development Associate, *Accenture Solutions Pvt Ltd*

June 2021 - Aug 2022 | Hyderabad, India

Database Analyst, Regeneron Inc - Client Data Analysis & Warehousing

- **Data Analysis:** Utilized **Athena and Redshift for client data analysis**, identifying two-thirds of integrity exceptions and improving process efficiencies. Implemented **ETL for efficient data handling**, reducing support calls by 50%
- Designed Python **pandas data pipelines to automate scripts**, resulting in a 50% reduction in support calls and ensuring efficient storage and maintenance of customer campaigns.
- Proficiently used **JIRA** to manage Agile development projects, creating, prioritizing, and updating tickets for seamless cross-functional collaboration.
- **Data Warehousing:** Conducted **business analysis for customer data warehousing**, resulting in improved data warehousing, enhanced data accuracy, and a significant reduction in data processing duration.
- Formulated **SQL queries using SQL Workbench** to meet business needs, thereby enhancing data quality and precision. Executed technological solutions, including DDL updates and the **deployment of data into production servers**.

RESEARCH PROJECTS

[Probabilistic Graphical Models, Bayesian Networks, PyMC3, Informative Prior Distributions]

Developed Bayesian logistic regression models using PyMC3 to predict diabetes status, incorporating informative priors. Evaluated performance with recall and f1-score metrics, comparing outcomes between uniform and normal distribution priors. *Bayesian Classification on Diabetes data.*

[Hugging Face transformers, Naive Bayes, Logistic Regression, BERT, N-Grams, GloVe embeddings]

Led Language Identification employing Naive Bayes, Logistic Regression, and DistilBERT, achieving an 89% baseline accuracy globally. Leveraged DistilBERT, enhancing precision to 94%, and incorporated n-grams analysis for a more nuanced understanding of linguistic patterns. *Language Identification.*

[PostgreSQL, MongoDB, Python, Sorting techniques, Search Engine Optimization, Django]

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 by 35% while implementing advanced caching strategies for superior system performance. *Twitter Search Application.*