

Education

University of Connecticut, Storrs, CT

December 2024

Master's in Data Science, 4.0 / 4.0 GPA

GITAM University, Vizag, India

August 2020

Bachelor of Technology, Computer Science and Engineering, 8.82 / 10 GPA

Skills

Data Analysis and Visualization: Pandas, NumPy, Scikit-learn, Seaborn, GGplot2, Tableau

Modeling: Machine Learning, Statistical Modeling, Data Mining, Generative Artificial Intelligence Fundamentals

Programming and Data Engineering: Python, R, SQL, Pyspark, Airflow, ETL, AWS, GitHub

Experiences

Data Scientist, Indeed, USA

May 2024 - Present

- Conducted EDA on a 3.5M-row dataset, applying data enrichment and imputation methods to ensure data integrity, and developed predictive models using Python, leading to improvement in sponsor satisfaction.
- Presented actionable insights and visualizations to stakeholders and collaborated with a team of 4 data scientists to refine algorithms and develop key performance metrics for analysis.

Independent Contractor, Parker Dewey, Chicago, USA

May 2024 - June 2024

- AllPeoplesMarketPlace: Achieved 100% data accuracy in migration from Google Analytics to Monday.com by performing ETL operations in python and rigorous validation as a Data Engineer.
- Milliman: Conducted competitive analysis on job postings based on team objectives, provided recommendations to improve application count, and delivered insights that earned team appreciation as a Data Scientist.
- PhilanthropyMiami Inc: Extracted actionable insights from various data files by joining them and creating plots in Python, enhancing strategic decisions in the "Extracting Insights from Data" project as a Data Analyst.

Data Engineer, Novus Platform Vizag, India

Sep 2019 - July 2023

- Led the design, development, and optimization of ETL pipelines, ensuring high-quality, consistent data availability, reducing processing time by 80%, and migrating storage from MySQL to S3, resulting in an 80% cost reduction.
- Enhanced data processing efficiency and real-time analytics by implementing Kafka streaming pipelines, optimizing Spark job performance from 8 hours to under 50 minutes, and dashboards with Tableau for improved business insights.

Python Developer Intern, NIT, Warangal, India

Apr 2019 - June 2019

- Developed a Python module facilitating student room allocation in a hostel comprising over 1.8k+ rooms.
- Acknowledged by NIT-Warangal management with an appreciation letter for significant contributions to the project.

Relevant Projects

Analyzing Insurance Claims for Future Financial Safeguard, Statistical Modeling, Machine Learning

- Developed and optimized predictive models (Random Forest, Logistic Regression, Probit) on a dataset of 1,338 instances, achieving an R-squared value of 0.873, enhancing model accuracy and interpretability.
- Addressed class imbalance by implementing oversampling and under sampling techniques, improving the classification accuracy of insurance claims by 15%.

Forecasting Freight Total Index Value, Applied Time series

- Developed Forecasting Models: Utilized ARIMA, ARIMAX, and GARCH models to predict TSI values with over 85% accuracy, capturing trends and short-term shocks like COVID-19.
- Comprehensive Data Analysis: Analyzed 288 monthly data points (2000-2023), identifying patterns with 92% explanatory power in transportation service demand.
- Rigorous Model Validation: Achieved RMSE of 3.25 and MAE of 2.1 through in-sample and out-of-sample evaluations, ensuring high predictive accuracy.

Insurance Customer Complaints Classification, Statistical Modeling, Machine Learning

- Enhanced complaint resolution strategies by analyzing over 20,000 insurance complaints, leading to a 15% improvement in resolution time, Optimized resource allocation by 25%.
- Developed and deployed predictive models (Random Forest, Naive Bayes, and Logistic Regression) achieving an average ROC AUC score of 0.96, significantly improving the accuracy of complaint type classification.

Achievements

- Finalist in the 2024 Business Intelligence & Analytics Leadership Development Program Case Competition (BI&A LDP) among 400 students, presented an innovative AI architecture using AWS for the insurance sector, emphasizing efficient data extraction, ingestion, and analytical processing strategies.