

Anusha Chimmili

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WORK EXPERIENCE

Concentrix

St. Louis, Missouri

Senior Data Engineer

Aug 2023 - Dec 2023

- Documented the current ETL workflows in Ab Initio, analyzing data orchestration for over 10 graphs to efficiently plan the migration to Spark ecosystem and then onto AWS.
- Changed Ab Initio SQL queries to PySpark, creating new ETL workflows that improved efficiency by reducing data processing time by 30%, resulting in faster data delivery to end-users.
- Conducted stress testing on data movement, validating that legacy workflow logic remained intact while achieving a 98% success rate in data transfer.

Aureus Tech Systems

Overland Park, Kansas

Data Science Intern

Jan 2023 - May 2023

- Identified and resolved 15 different categories of Personally Identifiable Information (PII) using NLP tools, resulting in enhanced data privacy and compliance.
- Improved the accuracy of identifying names, addresses, and Social Security Numbers (SSNs) by 15% through rigorous quality testing and post-processing techniques.
- Implemented the optimized model in production using Azure Databricks to analyze approximately 30,000 extracted text files of various formats, streamlining the PII redaction process.

Target Corporation

Bangalore, India

Senior Data Scientist

Oct 2021 - Jul 2022

- Developed and implemented Generalized Additive Mixed Models (GAMM) to accurately forecast demand for ~300k items on Target's Digital Platforms, resulting in a 20% reduction in inventory replenishment time.
- Consolidated and streamlined data from 6 different sources to provide comprehensive visibility of eligible items across 5 fulfillment types on digital platforms, increasing overall efficiency by 15%.
- Successfully migrated 7 workflows from legacy systems to the Spark3 ecosystem, ensuring enhanced data security measures and reducing potential risks by 30%.

Target Corporation

Bangalore, India

Data Scientist

Jul 2020 - Sep 2021

- Developed and implemented a comprehensive validation framework utilizing 8 dashboards to track the accuracy and bias of Timeseries models forecasting sales for ~100k items, resulting in improved model performance across all assortment pyramids.
- Optimized model accuracy by conducting hyper-parameter tuning for trend and seasonality components, resulting in an average increase of 10-15% in forecast accuracy.
- Expanded the scope of the forecasting pipeline to include 60 out of 110 departments under Target's inventory list, while simultaneously reducing the initial runtime by 2 hours, allowing for more efficient and scalable forecasting processes.

Target Corporation

Bangalore, India

Data Analyst

Dec 2019 - Jun 2020

- Streamlined the reporting dashboards for labor planning during peak season by collaborating with S&OP business teams, resulting in a 30% reduction in time spent on report generation and analysis.
- Automated the generation of 21 reports from different databases critical to labor planning in distribution centers, eliminating the need for manual updating and reducing data errors by 15%.
- Improved labor forecast accuracy by integrating real-time data feeds into reporting dashboards, resulting in a decrease of overstaffing by 20% during peak season.

EXL Inductis

Bangalore, India

*Data Analytics Consultant**Jul 2018 - Oct 2019*

- Used 110 consumer specific attributes from Experian data to identify potential customers for targeted marketing, resulting in a 15% increase in sales.
- Implemented sentimental analysis on customer reviews, providing actionable insights to improve product offerings and customer satisfaction levels.
- Collaborated with cross-functional teams to develop and implement marketing strategies based on data-driven insights, resulting in a 10% increase in customer acquisition.

EDUCATION**University of Central Missouri**

Lee's Summit, Missouri

*Master of Science, Big Data Analytics**Graduation Date: Dec 2023***Indian Institute of Technology, Bombay**

Mumbai, India

*Master of Technology, Biomedical Engineering**Graduation Date: Jun 2018***Osmania University, India**

Hyderabad, India

*Bachelor of Technology, Biotechnology**Graduation Date: May 2015***ACADEMIC PROJECTS****Image Processing**

Lee's Summit, Missouri

*Caption Generation**Aug 2023 - Nov 2023*

- Implemented a Flask application that generates captions for images using models such as BLIP and Git-Base-COCO
- Designed a robust database system for storing generated captions, resulting in efficient retrieval of saved captions

SKILLS

Machine Learning & Statistical Techniques : Generalized linear models, Tree-based models, Ensemble methods, Time series forecasting, SVM, Neural Networks, Naïve Bayes, Clustering, PCA, NLP, Topic modeling

Technologies: Big Data - Hive, Hadoop, Docker, Drone CI, AWS EC2 & S3, Apache Spark, Apache Oozie

Programming Languages/Libraries: Python (scikit-learn, prophet, nltk, spaCy, gurobi-py, keras), SQL, R, PySpark

HONORS & ACTIVITIES

Chief Data Science and Analytics Officer Award 2021: Digital Item Forecasting, Target