Pavan Tummala

Data Analyst

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PROFILE

Data Analyst with 3+ years of experience in data extraction, analysis, and visualization. Proficient in Python, R, SQL, and cloud platforms (AWS, Azure, GCP). Skilled in building ETL pipelines using Informatica, Talend, NiFi, and Airflow. Experienced in data manipulation and visualization with Pandas, NumPy, Matplotlib, Seaborn, and ggplot2. Adept at creating dashboards in Power BI, Tableau, and Excel. Strong database knowledge (MySQL, SQL Server, MongoDB, Oracle) and version control (Git, GitHub, GitLab). Hands-on experience with machine learning models like Random Forest for predictive analysis and natural language processing (NLP) for text analytics, transforming complex data into clear, actionable strategies that support business growth.

EDUCATION

State University of New York
Master of Professional Studies, Data Science
01/2023 – 05/2024
Buffalo, USA

Sri Venkateswara University
Bachelor of Technology in Electronic and Communications
07/2017 – 07/2021
Tirupati, India

SKILLS

Methodologies
SDLC, Agile, Waterfall

Programming Languages
Python, SQL, R, Java

Data Visualization
Power BI, Tableau, Looker Studio, Matplotlib, Seaborn, Plotly

Database Management
MySQL, PostgreSQL, Snowflake, AWS Redshift, Google BigQuery, MongoDB

IDEs
Visual Studio Code, PyCharm, Juypter Notebook

ETL Tools
AWS Glue, Python (Pytest for data validation), SQL (JOINS, GROUP BY, CASE statements)

Cloud Technologies
AWS (S3, Lambda, Glue, Redshift, SageMaker), GCP (BigQuery, Looker Studio, Cloud | Functions), Azure (Data Lake, HDInsight)

Advanced Analytics
Predictive Modeling, Statistical Analysis, Regression Testing, Risk Assessment, Scenario | Analysis

Frameworks & Libraries
PyTorch, TensorFlow, Keras, NumPy, SciPy, Pandas, Scikit-Learn, XGBoost, Apache Kafka, Spark, Hadoop, Hive

Other Skills
Data Cleaning, Data Wrangling, Data Architecture, Communication Skills, Presentation Skills, | Decision Making, Git, GitHub, Deep Learning, Quantitative Analytics, Statistics Modeling, Computer Science, Data Modeling

PROFESSIONAL EXPERIENCE

Data Analyst
Keyfactor
10/2023 – Present
Remote, USA

- Extracted, cleaned, and normalized large-scale customer data using SQL and Python (Pandas, NumPy), ensuring 98% data accuracy for churn prediction models.
- Developed complex SQL queries (JOINS, CTES, Window Functions) to segment customer data by behavioral patterns, improving targeted retention strategies and engagement rates.
- Enhanced data accuracy and efficiency in processing by up to 30% through the implementation of rigorous data validation methods using Python (Pandas, Pytest) and the automation of ETL processes with tools such as Informatica, Talend, Apache Nifi, and Apache Airflow.
- Applied statistical methods and created impactful visualizations with Python libraries (Matplotlib, Seaborn, SciPy, Scikit-Learn, ggplot2) and tools like Tableau, Power BI, Qlik, and Excel to identify churn patterns and deliver actionable insights.
- Utilized AWS (S3, Lambda), along with Azure for scalable data storage and automated data transformations, streamlining real-time processing and reducing data management costs by 20%.

- Managed data analysis projects using Agile and Waterfall methodologies, collaborating with cross- functional teams of 25+ and leveraging Git-based version control to enhance project quality and accelerate decision-making by 20-25%

Program Analyst
Cognizant

10/2021 – 10/2022
Chennai, India

- Used Python (SciPy, Statsmodels) and R for statistical modeling and hypothesis testing, enhancing predictive accuracy and cutting manual data analysis efforts by 30%.
- Maintained efficient SQL workflows (JOINS, CTES, CASE) to structure and analyze customer sentiment data, enabling advanced trend analysis and reporting.
- Formulated predictive forecasting models with R and Python to decipher revenue trends, empowering business leaders with the foresight for proactive strategies.
- Designed and maintained Power BI dashboards leveraging DAX, Power Query, and M Language, enhancing real-time business insights and improving decision-making efficiency by 25%.
- Built real-time Tableau dashboards to track customer behavior, sales performance, and marketing ROI, leading to data-driven executive decision-making.
- Implemented A/B testing via Python (SciPy, Statsmodels) to gauge marketing campaign impacts, leading to a 12% uptick in conversion rates.
- Architected scalable ETL pipelines with Alteryx, automating data transformation processes and slashing manual workload by 0%.
- Enhanced cloud-based data storage and retrieval systems using Azure Cloud, ensuring optimal availability and minimizing data processing delays.

Data Analyst Intern
Epergne Solutions

08/2020 – 09/2021
Chennai, India

- Developed automated reporting solutions using Python and SQL, reducing manual reporting efforts by 50% and ensuring real-time data availability.
- Led daily troubleshooting for the Material Planning IT team, reducing issue resolution time by 25% and enhancing system reliability.
- Developed end-to-end data pipelines to ingest, clean, and transform e-commerce datasets, ensuring structured and high-quality data for analytics and reporting.
- Conducted advanced statistical analysis using Python (SciPy, Statsmodels) and R, identifying key performance indicators (AOV, CLV, return rates) and improving revenue forecasting accuracy.
- Designed and deployed Tableau dashboards to analyze sales trends, customer demographics, and product performance, supporting revenue optimization strategies.
- Collaborated with SAP, Product, CyberArk, and analytics teams to drive process optimizations, improving cross-team project efficiency by 25%.
- Resolved Servigistics system issues, reducing downtime and boosting customer satisfaction scores by 20% through efficient troubleshooting and technical support.
- Conducted supply chain trend analysis and implemented data-driven forecasting models, leading to an 18% reduction in stockouts and improved operational planning.

PROJECTS

Customer Churn Prediction & Retention Strategy ⬈
- Developed a Random Forest-based churn prediction model, achieving 85% accuracy in identifying high-risk customers and improving retention strategies.
- Collaborated with stakeholders to refine retention strategies, leading to a 15% improvement in customer retention rates.

Fraud Detection System ⬈
- Analyzed financial transaction data to identify fraudulent patterns using anomaly detection models.
- Optimized SQL queries to detect unusual transaction behaviors in real-time.
- Reduced fraud cases by 20% through predictive modeling and automated alerts.

AI - Finance Tracker ⬈
- Developed an AI-powered tracker that analyzes user spending patterns, categorizes expenses automatically, and provides personalized financial advice using machine learning.
- Integrated real-time budget tracking with interactive dashboards, alerting users to overspending and suggesting corrective actions through predictive analytics.

CERTIFICATES

- Microsoft Azure Fundamentals (Az-900) ⬈
- Internet of Things (IOT) from NPTEL affliated to Indian Institute of Technology