**Revanth Potluri**

**Data Analyst | Tableau | Power BI | Alteryx**

**Professional Summary**

* Experienced and Results-oriented Data Analyst with over six years of experience in cloud-based data solutions, business intelligence, and data analytics. Skilled at transforming complex data into actionable insights to support decision-making across various industries. Proficient in leveraging cloud platforms (AWS, Azure, Snowflake and Databricks) and tools such as Python, SQL, Power BI, and Tableau to enhance reporting capabilities and optimize business operations.
* Proficient in predictive modeling, real-time data visualization, and AI-driven analytics to enhance corporate performance.
* Experienced in developing sophisticated ETL pipelines for high-performance data processing using Apache Spark, PySpark, AWS Glue, and Azure Data Factory.
* Adept at utilizing big data technologies for distributed computing and storage, including Hadoop, Hive, Kafka, and Snowflake.
* Strong expertise in machine learning models (Scikit-Learn, XGBoost, TensorFlow, and AutoML) for financial analytics, risk assessment, and customer behavior analysis.
* Proficiency in combining information from various sources to create executive reporting dashboards.
* Hands-on experience in automating data operations and improving data engineering efficiency using Co-Pilot AI, GitHub Copilot, and AutoML.
* Skilled in query optimization, database indexing, and SQL performance tuning for PostgreSQL, MySQL, and Oracle high-speed analytics.
* Built dynamic Tableau dashboards that produced real-time financial data and cut down on decision-making time by 25%.
* Expertise in scalable analytics applications using containerized deployments with Kubernetes and Docker.
* Strong knowledge of security guidelines, data governance, and compliance regulations (GDPR, HIPAA, SOC 2).
* Proficient in leveraging Power BI, Tableau, and Looker for interactive analytics, dashboard automation, and real-time reporting.
* Analytics for Strategic Data knowledgeable with multi-cloud architectures (AWS, Azure, Snowflake, and Databricks), which allows for real-time analytics solutions and high-velocity data processing.
* Experienced in using Power BI, Tableau, and Looker to implement Row-Level Security (RLS), Object-Level Security (OLS), and RBAC models in order to guarantee data compliance (SOC 2, GDPR, HIPAA).
* Strong ability to use DAX and MDX to create sophisticated analytics solutions in Tableau and Power BI.
* Passionate about utilizing emerging technologies for corporate intelligence, automation, and AI-driven analytics.

# Skills

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| **Scripting Languages**: | Python, Shell, VB Scripting, SQL |
| **Machine Learning**: | Pandas, Scikit-Learn, SciPy, NumPy, PyTorch, Mllib, NLTK, Spacy, Text Blob, Regression, Classification, Clustering Modeling |
| **SAP Modules**: | SAP Basis, SAP ABAP, SAP MM |
| **Big Data Ecosystems**: | Hadoop, MapReduce, HDFS, HBase, Zookeeper, Hive, Pig, Spark, Kafka |
| **Cloud Technologies**: | AWS (EC2, S3, Redshift, RDS, Glue, Athena, EMR, Elastic Search, IAM), Azure (Data  Lake, Data Factory, Data Lake Analytics, SQL DW, Databricks, NoSQL DB), Snowflake |
| **BI Tools:** | Tableau, Power BI, MS Excel, Looker |
| **Version Control Tools**: | Git, GitHub, GitHub Copilot |
| **Build Tools & Testing Tools**: | Jenkins, JIRA, CI/CD Pipelines |
| **Other Tools**: | Eclipse, MS Visual Studio, REST API, SAP S/4 Hana, Blue Prism, UAT Testing (SDLC),  Airflow |
| **Operating Systems**: | Unix/Linux, Windows |
| **Databases**: | RDBMS - Oracle, MySQL, SQL Server, SAP Hana, NoSQL – MongoDB, Cassandra, HBase, DynamoDB |
| **Methodologies**: | Agile, Waterfall |

**Certification**

* Excel Skill for Business Specialization Beginner to Advanced (Macquarie University, Coursera)
* Alteryx Designer Core Certification (Alteryx)
* Tableau Data Analyst
* SQL (Intermediate) – Hacker Rank
* Data Analysis Using Python – IBM
* Data Analytics Job Simulation – Quantium
* Power BI Job Simulation – PWC

**Education**

* MS Business Analytics Saint Peter’s University Jersey City, NJ May 2024 - CGPA: 3.91

**Work experience:**

**Prudential Financial, Scranton, PA July 2024 - Present**

**Data Analyst//Tableau Developer**

**Responsibilities**

* Developed AI-powered dashboards for automated financial risk assessments and predictive analytics using Tableau and Microsoft Co-Pilot.
* Decreased ETL processing time by 40% by optimizing Python scripts and SQL queries with GitHub Co-Pilot, Apache Spark, and Snowflake.
* Using TensorFlow, PyTorch, and Scikit-based AI-driven decision systems, anomaly detection, and predictive analytics Learn about financial risk management using hyperparameter-tuned machine learning models.
* Improved data input and transformation efficiency by building serverless data pipelines with AWS Lambda, Glue, and Athena.
* Utilized Hadoop for processing large volumes of financial data, enabling scalable risk analysis.
* Optimized Hadoop MapReduce jobs to improve financial reporting processing times by 35%.
* Integrated Teradata with Snowflake for efficient storage and access of large financial risk datasets.
* Leveraged Teradata to analyze large-scale financial data, improving decision-making and reporting efficiency.
* Optimized SQL queries in Teradata, reducing data retrieval time by 40% for financial reporting.
* Optimized Tableau Extracts, Hyper Engine Queries, and Live Connections to cut down on dashboard refresh time by 50%.
* Reduced data latency in reporting by designing and implementing real-time analytics solutions with Kafka and Apache Flink.
* Implemented Tableau Data Prep, and Looker Explores for ad hoc reporting while spearheading self-service analytics projects.
* Increased fraud detection accuracy by 30% through automated anomaly detection models using Scikit-Learn, TensorFlow, and PyTorch.
* To protect the confidentiality of the data, Tableau's row-level security (RLS) and user access control were implemented.
* Developed AI-powered Tableau dashboards for financial risk assessments, integrating predictive models to enhance decision-making.
* Optimized Tableau Extracts and Live Connections, reducing dashboard refresh time by 50%.
* Implemented row-level security (RLS) in Tableau to ensure compliance with financial data confidentiality regulations. Developed Tableau dashboards to visualize fraud detection insights using ML models (Scikit-Learn, TensorFlow).
* Increased fraud detection accuracy by 30% by integrating anomaly detection models with Tableau’s advanced calculations.
* Reduced data latency by implementing real-time fraud monitoring using Kafka and Tableau Hyper Engine queries.
* Skilled in using serverless computing (AWS Lambda, Azure Functions) and distributed processing (Apace Spark, Kafka Streams, and Flink) to design highly optimized ETL workflows.
* Enabled seamless data warehousing and reporting by integrating Azure Synapse Analytics with Snowflake.
* Streamlined data transfers between cloud platforms and internal applications by developing RESTful API integrations.
* Developed machine learning models for fraud detection, increasing financial crime detection accuracy by 30%.
* Created real-time dashboards for monitoring financial crime, integrating transaction data and external watchlists.
* Developed sophisticated computations with parameterized dashboards and LOD expressions for dynamic user inputs.
* Utilizing AWS Lambda and Azure Functions, serverless functions were developed to automate data operations and lower operating expenses.
* Strong practical knowledge of data lakehouse architectures using Apache Iceberg, Delta Lake, and Hudi, guaranteeing schema evolution and data transformations that adhere to ACID standards.
* To provide fast data visualization for big datasets, Tableau was integrated with Snowflake and AWS Redshift.
* Created a real-time financial KPI dashboard that combines information from AWS S3, Snowflake, and SQL Server.
* Led the effort to improve the performance of SQL queries for large datasets, resulting in 60% faster report creation.

**Environment:** Python, SQL, Tableau, AWS (Glue, Athena, Redshift, Lambda, S3), Azure Synapse, Apache Spark, GitHub Copilot, TensorFlow, Kafka, PyTorch, PostgreSQL, Snowflake.

**Nationwide, Columbus, OH Apr 2023 - May 2024**

**Data Analyst**

**Responsibilities**

* Designed and optimized Azure Data Factory pipelines to automate data ingestion from PostgreSQL, MongoDB, and SQL Data Warehouse.
* Built a multi-cloud data lake solution integrating AWS S3, and Azure Data Lake for seamless data exchange.
* Enhanced strategic decision-making by developing ML-powered business insights reports using Databricks, PySpark, and Power BI.
* Streamlined deployments by implementing CI/CD pipelines for data workflows with Jenkins, GitHub Actions, and Kubernetes.
* Created Tableau geospatial analytics solutions by combining geographic clustering methods (DBSCAN, H3 Indexing) with ArcGIS APIs.
* Developed self-service analytics solutions using Python Dash, DAX, and MDX to provide automated insights for business users.
* Using Hyper API, I developed unique Tableau extract algorithms that greatly decreased memory consumption for extensive BI deployments.
* Built predictive models for financial crime detection using machine learning algorithms like XGBoost and AutoML.
* Designed geospatial analytics dashboards in Tableau, utilizing geographic clustering (DBSCAN, H3 Indexing) to optimize sales strategies.
* Integrated ArcGIS APIs with Tableau for advanced location-based insights, enhancing regional performance tracking.
* Improved customer segmentation analysis by leveraging Tableau’s AI-driven visualizations combined with Databricks ML models.
* Designed and deployed real-time analytics dashboards by integrating Tableau with Snowflake and AWS Redshift, improving reporting efficiency.
* Automated data pipelines using AWS Glue and Azure Data Factory, ensuring seamless data flow for interactive Tableau dashboards.
* Enhanced operational efficiency by implementing self-service analytics solutions, reducing manual reporting efforts by 40%. Built interactive Tableau dashboards leveraging ML-driven forecasting models to improve sales and revenue projections by 18%.
* Created dynamic financial KPI dashboards integrating data from AWS S3, Snowflake, and SQL Server for executive decision-making.
* Implemented advanced LOD expressions and parameterized calculations in Tableau to enable customizable forecasting models.
* Integrated multiple data sources into a centralized system for efficient financial crime monitoring.
* Leveraged Teradata to analyze large-scale financial data, improving decision-making and reporting efficiency.
* Enhanced Teradata queries to speed up data processing by 30% for business intelligence.
* Created real-time streaming analytics dashboards using Looker, Kafka, and Azure Stream Analytics.
* Built scalable data pipelines with Hadoop to process financial data for real-time reporting and analytics.
* Integrated Hadoop with cloud platforms to enhance financial data access and processing.
* Automated data quality checks with PyTest and Great Expectations to ensure data fidelity across platforms.
* Integrated Azure Synapse Analytics for multi-cloud analytics tasks.
* increased operational efficiency through the use of Tableau Server to automate report scheduling and distribution.
* Improved customer retention strategy by leading predictive modeling projects using XGBoost and AutoML.
* Optimized Tableau live connections by using partition pruning and columnar storage strategies (Parquet, ORC) in SQL Server, Snowflake, and Redshift.
* Reduced query execution time by 50% through SQL indexing, partitioning, and optimization algorithms.

**Environment:** Azure (Data Factory, Synapse, Data Lake, Stream Analytics), Python (Pandas, NumPy, Scikit-learn), SQL (PostgreSQL, MySQL, MongoDB), Databricks, , Jenkins, GitHub Actions, Looker, XGBoost, Tableau, AutoML.

**Aviva, Hyderabad, India Sep 2020 - Jan 2023**

**Data Analyst**

**Responsibilities**

* Increased the accuracy of sales forecasting by 18% using TensorFlow, AutoML, and Python (Pandas, NumPy).
* Developed ETL pipelines that reduced processing time by 30% with Snowflake, Step Functions, and AWS Glue.
* Designed a real-time data input system using Kafka and Spark Streaming to ensure data availability.
* Accelerated report generation by 40% through Snowflake’s optimization of distributed SQL queries.
* Built machine learning models for churn prediction using Scikit-Learn, H2O.ai, and Azure ML.
* Standardized Power BI templates, reducing report generation time by 35%.
* Developed advanced time-series forecasting models with LSTM networks and Facebook Prophet.
* Reduced downtime by 45% through automated data pipeline monitoring with Prometheus and Grafana.
* Led a cloud migration project, transitioning on-premises data warehouses to Snowflake.
* Implemented SQL query optimization techniques to enhance large-scale data processing efficiency.

**Environment:** AWS (Glue, Step Functions, S3, Lambda), Snowflake, Azure ML, Kafka, PySpark, H2O.ai, Python (Pandas, TensorFlow, Facebook Prophet, LSTM), Prometheus, Grafana, Power BI.

**Swift Safe, Hyderabad, India Oct 2018 - Aug 2020**

**Junior Data Analyst**

**Responsibilities**

* Created SQL-based risk analysis reports using PostgreSQL, NoSQL, and Cassandra for credit risk evaluation.
* Developed dynamic Power BI dashboards for portfolio analytics and real-time credit risk monitoring.
* Automated data quality validation using Python scripting and Alteryx workflows, reducing mistakes by 20%.
* Built self-service BI solutions to automate data reporting with Power Query and DAX.
* Designed real-time data reconciliation procedures using Spark Streaming and Kafka.
* Implemented data warehousing best practices using Fact-Dimension modeling and Star Schema.
* Assisted in migrating data from on-premises databases to Azure Synapse Analytics.
* Developed machine learning classification models for consumer credit scoring using XGBoost and Scikit-Learn.
* Optimized pipelines for financial data analytics through advanced SQL tuning techniques.
* Built automated data pipelines with Python, PySpark, and Airflow in collaboration with software engineers.

**Environment:** PostgreSQL, NoSQL (Cassandra, MongoDB), Python, Power BI, Alteryx, Kafka, Spark Streaming, SQL Server, Azure Synapse, Scikit-learn, Airflow.