SAI CHITRA BHANU MADDIPOTI

DATA ANALYST

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PROFESSIONAL SUMMARY

Experienced Data Analyst with **7**+ years of expertise in SQL, Python, Tableau, and Power BI, delivering actionable insights and data-driven decisions. Skilled in data visualization, statistical analysis, and machine learning using tools like Scikit-learn, Tensor Flow, and Alteryx. Hands-on experience with big data technologies such as Hadoop, Spark, and Kafka for large-scale data processing. Proficient in cloud platforms (AWS, Azure, GCP) and Snowflake for cloud-based data warehousing and analytics. Adept at building interactive dashboards, predictive models, and optimizing ETL pipelines to enhance business efficiency.

TECHNICAL SKILLS

- **Programming Languages:** SQL, Python, R, JavaScript
- **Data Analysis & Statistical Tools:** Excel (Advanced), SAS, SPSS
- **Data Visualization:** Tableau, Power BI, Looker, QlikView
- **ETL Tools:** Informatica, Alteryx, Talend, Apache Nifi
- **Big Data Technologies:** Hadoop, Spark, Snowflake, Apache Hive
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Keras
- **Databases & Data Warehousing:** MySQL, PostgreSQL, Oracle, Teradata, Amazon Redshift
- **Cloud Platforms:** AWS, Google BigQuery, Microsoft Azure, Snowflake.
- **Statistical Analysis:** SciPy, Stats models.
- **Data Wrangling:** Pandas, NumPy, Dplyr
- **Web Scraping & APIs:** Beautiful Soup, Selenium, Postman
- **Automation & Scripting:** VBA (Excel), Power Automate, Bash
- **Version Control:** Git, GitHub
- **Collaboration & Project Management:** JIRA, Confluence, Microsoft Teams
- **Dashboarding & Reporting:** Google Data Studio, Zoho Analytics
- **Natural Language Processing (NLP):** NLTK, spaCy
- **Data Encryption & Security:** SSL/TLS, AWS KMS, GDPR
- **Data Automation & Workflow**
  - **Orchestration:** Apache Airflow, Luigi
- **Data Cleaning & Preprocessing:** OpenRefine, Trifacta

WORK HISTORY

Senior Data Analyst
03/2024 to Current

Advent Health – Deland, *FL*

- Conducted advanced data analysis to identify trends, improve patient care outcomes, and optimize hospital operations
- Developed and maintained interactive dashboards using **Power BI and Tableau** for real-time insights into patient demographics, resource utilization, and financial performance

- Utilized **SQL** to extract, clean, and transform large datasets from hospital databases, including Electronic Health Records (EHR) systems
- Automated data workflows and ETL processes using **Alteryx and Python**, ensuring timely and accurate data delivery for analytics
- Leveraged **Python** libraries such as **Pandas, NumPy, and Matplotlib** for statistical analysis, data manipulation, and visualization
- Implemented predictive analytics using machine learning models with tools like **Scikit-learn and Tensor Flow** to forecast patient admission rates and optimize resource allocation
- Worked extensively with **Snowflake** and **Azure Data Lake** for cloud-based data warehousing and scalable data management and designed and optimized SQL queries for data extraction and reporting, ensuring compliance with healthcare regulations like HIPAA
- Monitored and processed real-time data streams using **Apache Kafka** for patient monitoring systems and emergency response analytics
- Collaborated with cross-functional teams to integrate data from multiple systems, leveraging API integrations and data pipelines and Used GCP technologies like **Big Query** for handling large-scale healthcare data analytics and running complex queries efficiently
- Integrated data from multiple hospital systems using ETL tools like **Informatica and SSIS,** ensuring seamless data flow and consistency across platforms
- Developed and deployed machine learning models using **Python and Scikit-learn** to predict patient readmissions, optimize treatment plans, and enhance operational efficiency
- Utilized **Excel** for advanced data analysis, including pivot tables, VLOOKUP, and complex formulas, to generate detailed reports
- **ENVIRONMENT**: Power BI, Tableau, SQL, Alteryx, Python, Pandas, NumPy, Matplotlib, Scikit-learn, Tensor Flow, Azure Data Lake, Snowflake, Apache Kafka, API integrations, ETL tools, Big Query, Apache Spark, Informatica, SSIS, Kafka Streams, VLOOKUP, Excel

Senior Data Analyst   08/2021 to 07/2022

FIS Global – Jacksonville, FL

- Conducted comprehensive financial data analysis to identify trends, assess risks, and optimize investment strategies
- Developed interactive dashboards using **Power BI and Tableau** to visualize key financial metrics, including revenue growth, expense patterns, and profitability
- Extracted and transformed financial datasets using **SQL** for detailed reporting and compliance with regulatory requirements
- Automated ETL workflows with tools like **Alteryx and Informatica**, ensuring seamless data integration across multiple financial systems
- Utilized **Python** libraries such as **Pandas, NumPy, and Matplotlib** for statistical analysis, forecasting, and portfolio optimization
- Implemented **machine learning** models using **Scikit-learn** to predict market trends, credit risk, and customer churn
- Managed large-scale financial datasets using cloud-based platforms **like Snowflake and AWS Redshift** for scalable data storage and processing

- Designed and executed complex **SQL** queries for ad hoc financial analysis, including variance analysis and scenario modelling
- Leveraged **Apache Spark** for distributed data processing and analysis of high-volume transactional data
- Monitored and processed real-time data streams using **Kafka** to provide up-to-the-minute insights into financial operations
- Partnered with stakeholders to design custom **BI** tools and analytics solutions tailored to investment performance and risk management
- Integrated third-party financial data through API connections, enabling real-time updates and enhanced reporting capabilities
- Leveraged **Excel** for advanced financial modelling, including pivot tables, macros, and VBA scripting, to streamline reporting
- Designed and implemented robust ETL workflows using tools like **Informatica, Alteryx, and SSIS** to extract, transform, and load large-scale financial datasets, ensuring seamless integration and data accuracy across systems
- Utilized Hadoop ecosystem technologies, including **Hive and Pig**, for processing and analyzing large financial datasets, enabling efficient storage and querying of structured and unstructured data in a distributed environment
- Leveraged AWS technologies such as **S3, Redshift, and Lambda** to design scalable data pipelines, store large volumes of financial data, and automate data processing tasks, improving the overall efficiency of financial reporting
- Built and optimized data models in **Snowflake** to support large-scale analytics for financial data, ensuring fast query performance and seamless data integration across departments
- Developed and maintained **SQL Server and MySQL** databases for storing transactional and historical financial data, enabling efficient querying and reporting across multiple platforms
- **ENVIRONMENT**: Power BI, Tableau, SQL, Alteryx, Informatica, Pandas, NumPy, Matplotlib, Scikit-learn, Snowflake, AWS Redshift, Apache Spark, Kafka, BI tools, Excel, ETL workflows, Hive, Pig, Lambda

Data Analyst   11/2019 to 07/2021
Warner Music group – *Bengaluru, India*

- Conducted in-depth data analysis on sales, streaming, and social media data to optimize marketing strategies and track the performance of Warner Music Group's artists and albums
- Utilized **SQL and Python** for data extraction, cleaning, and transformation to create actionable insights from complex datasets across multiple platforms
- Developed and maintained interactive dashboards using **Power BI and Tableau** to visualize key performance indicators (KPIs) for album sales, streaming numbers, and artist engagement
- Implemented machine learning algorithms with **Scikit-learn** to predict music trends, identify emerging artists, and forecast revenue from music royalties and streaming platforms
- Designed and managed **ETL** processes using **Apache Airflow and AWS Lambda** to automate data integration from diverse sources such as Spotify, Apple Music, and internal sales databases

- Used **Hadoop and Spark** to analyze and process large-scale music datasets, enabling advanced analytics on listener behavior, streaming patterns, and sales performance
- Worked with AWS technologies like **Redshift, S3, and Glue** to manage and store large volumes of music-related data, ensuring efficient data retrieval and processing
- Analyzed royalty data and streaming contracts, creating automated reporting systems using **Excel, VBA, and SQL** to track artist earnings and financial performance
- Utilized **machine learning** to optimize playlist curation and recommend personalized music to users based on listening history and preferences
- Leveraged **Snowflake** for cloud-based data storage and processing, integrating data from multiple sources, and used **Power BI** to create interactive dashboards that visualized key business insights, including sales trends, artist performance, and market growth
- **ENVIRONMENT**: SQL, Python, Power BI, Tableau, Scikit-learn, Apache Airflow, AWS Lambda, Hadoop, Spark, Redshift, S3, Glue, Excel, VBA, machine learning, Snowflake, Power BI

Data Analyst   06/2016 to 10/2019

Erie Insurance – *Bangalore, India*

- Preprocess and clean data by handling missing values, correcting errors, and transforming raw data into usable formats
- Create interactive dashboards and reports using tools **like Tableau, Power BI, and Excel** to communicate findings
- Build and test predictive models using **Python, R, and machine learning** libraries such as **Scikit-learn and Tensor Flow**
- Write complex SQL queries to extract, join, and filter data from relational databases like **MySQL and SQL Server**
- Design and manage ETL (Extract, Transform, Load) pipelines using tools like **Apache NiFi, Talend, or SQL Server Integration Services** (SSIS)
- Manage and optimize data storage in data warehouses like **Amazon Redshift, Snowflake, or Google Big Query** for efficient querying
- Develop automation scripts using **Python** or **Shell scripting** to streamline repetitive data processing tasks
- Automate report generation and distribution using tools like **Power BI or Tableau** for real-time insights
- Build and maintain data pipelines using technologies such as **Apache Spark, Hadoop, or Airflow** for efficient data processing and Utilize **Apache Hive** for querying and managing large datasets stored in Hadoop, and leverage Google Data Studio to create interactive, visually appealing reports and dashboards
- Design and manage data warehousing solutions using Snowflake for scalable and secure data storage, and integrate with **Looker** to build interactive dashboards and data visualizations
- Utilize **Pandas** for data manipulation and cleaning, NumPy for numerical computations, and **Matplotlib** and Sea born for creating detailed visualizations, while applying **SciPy** for advanced statistical analysis

- Develop and deploy machine learning models using algorithms such as regression, classification, and clustering to analyze data patterns, predict outcomes, and drive data-driven decision-making, leveraging tools like **Scikit-learn and Tensor Flow**
- Leverage **AWS services such as S3, Redshift, and Lambda** to efficiently store, process, and analyze large datasets in the cloud, while ensuring scalability, security, and cost-effectiveness in data engineering workflows
- Develop and deploy data processing applications using **Docker** for containerization, ensuring consistency across environments, and utilize **Git** for version control to track changes
- **ENVIRONMENT**: Tableau, Power BI, Excel, Python, R, Scikit-learn, Tensor Flow, MySQL, Apache NiFi, Talend, Amazon Redshift, Snowflake, Google Big Query, Apache Spark, Hadoop, Airflow, MongoDB, Cassandra, Docker, Git, Apache Hive, Google Data Studio, Looker, Pandas, NumPy, Matplotlib, Sea born, machine learning models, S3, Redshift, Lambda

EDUCATION

Masters: MBA in Business Analytics and Finance

University: University of Massachusetts Dartmouth