

Prudhvi G.

Data Analyst

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SUMMARY

- **Experienced Data Analyst** with **4+ years** of applied experience spanning Healthcare, IT & Finance sector specializing in Data Analysis, Data Reporting, Database Management, Dashboard Development, Performance Monitoring, Project Coordination and so on.
- Expertise in applying statistical methods and predictive modeling using tools like **SAS**, **SPSS**, and **Python libraries (Pandas, NumPy, Scikit-Learn)** for in-depth data analysis and forecasting.
- Skilled in creating interactive dashboards using **Tableau** and **Power BI** to present data insights to stakeholders.
- Proficient in developing and deploying machine learning models with **TensorFlow** and **Scikit-Learn** for predictive analytics and decision support in both healthcare and finance.
- Skilled in managing and optimizing **SQL** and **NoSQL** databases, including **MySQL**, **PostgreSQL**, and **MongoDB**, ensuring efficient data retrieval and storage.
- Expertise in designing and implementing **ETL** workflows using tools like **Talend**, **Informatica**, and **Apache Airflow** to ensure seamless data integration and transformation.
- Knowledgeable in ensuring data compliance with healthcare regulations (**HIPAA**) and **EHR** systems for Data Security.
- Skilled in using **Apache Spark** and **AWS** for large-scale data processing and analysis.
- Capable of automating data workflows using **Python** and **Alteryx** enhancing operational efficiency and accuracy.
- Hands-on experience with cloud platforms such as **AWS** for data storage, processing, and deployment, leveraging cloud infrastructure for scalable data solutions.
- Strong background in **Agile methodologies** and **project management** tools like **JIRA** and **Confluence**, ensuring collaborative and efficient project execution.

SKILLS

Data Management and Databases	SQL (MySQL, PostgreSQL, Oracle, SQL Server), NoSQL (MongoDB, Cassandra), Data Warehousing (Amazon Redshift, Snowflake, Google BigQuery), ETL Processes
Programming Languages	Python (Pandas, NumPy, Matplotlib, Seaborn), R, SAS
Data Visualization	Tableau, Power BI, Excel (Advanced, VBA)
Data Warehousing	Amazon Redshift, Snowflake, Google BigQuery
Statistical Analysis and Machine Learning	Statistical Software (SAS, SPSS), Machine Learning (TensorFlow, Scikit-learn), Data Mining
Big Data Technologies	Hadoop Ecosystem (Hive, Pig), Apache Spark
Cloud Platforms	AWS (S3, Redshift, Glue, EC2), Azure
Data Processing and ETL Tools	ETL Tools (Talend, Informatica, SSIS), Apache Airflow
Collaboration and Version Control	Git/GitHub, JIRA
Other Technical Skills	Data Quality Tools (Alation, Talend Data Quality), Data Governance, Data Security Practices (Encryption, Masking), Data Privacy Laws (GDPR, HIPAA), Epic, Cerner, Healthcare Data Standards (ICD-10, CPT, HL7), Crystal Reports, SSRS (SQL Server Reporting Services), Clustering, Classification, Regression, A/B Testing, Forecasting & Modelling, Data Cleaning, Data Wrangling, Process Mapping, Solution Oriented, Ad Hoc Analysis, Project Management, Data Presentation, Requirement Gathering, Root Cause Analysis, Data Storytelling, Communication Skills, Critical Thinking, Problem-Solving Skills

EDUCATION

Master of Science in Computer Science – University of Texas, Arlington, Texas, USA

Bachelor of Technology in Computer Science – Sathyabama Institute of Science and Technology, India

EXPERIENCE

Data Analyst | HCA Healthcare, Texas | June 2023- Present

Project: Patient Discharge Optimization

- Led a healthcare project to enhance patient discharge planning, resulting in a 20% reduction in average discharge time by analyzing bottlenecks and optimizing workflows using Python, SQL, and Tableau.
- Utilized Snowflake and SQL to aggregate and analyze data from Electronic Health Records (EHR) systems, such as Epic and Cerner, focusing on patient discharge patterns and resource utilization.
- Developed interactive Tableau dashboards to visualize discharge timelines, staff efficiency, and patient flow, providing real-time insights to hospital administrators for better resource allocation.
- Collaborated with data engineers to create ETL pipelines using Apache Airflow and Talend, integrating data from multiple hospital information systems (HIS) into a centralized data warehouse for comprehensive analysis.
- Conducted statistical analysis with SAS to identify factors contributing to discharge delays, such as staffing levels, patient acuity, and availability of post-discharge resources, leading to targeted process improvements.
- Optimized database queries in SQL Server and PostgreSQL, reducing data retrieval times by 25%, which facilitated faster reporting and more timely decision-making for discharge planning.
- Ensured strict adherence to HIPAA and HITECH regulations by implementing data security measures, including role-based access controls, encryption, and regular compliance audits across all data handling processes.
- Deployed predictive models using AWS SageMaker to forecast discharge readiness, enabling proactive planning and better coordination between clinical and administrative teams.
- Provided training to healthcare staff on using data analytics tools like Power BI and Excel, empowering them to track and improve discharge processes independently, leading to increased efficiency and staff engagement.
- Supported the implementation of FHIR (Fast Healthcare Interoperability Resources) standards for data exchange, enhancing the interoperability of discharge data across different healthcare systems.

Tech Stack: Python, SQL, Snowflake, Tableau, Apache Airflow, Talend, SAS, R, SQL Server, PostgreSQL, AWS SageMaker, Power BI, Excel, FHIR.

Data Analyst | Capgemini, India | Aug 2018-Dec 2021

Project: Financial Audit and Compliance Enhancement

- Led a comprehensive financial audit and compliance project, ensuring data integrity and regulatory adherence, which resulted in a 20% reduction in compliance-related issues.
- Engineered robust data pipelines using SQL, MySQL, and Apache Hive to streamline the extraction, transformation, and loading (ETL) of financial data, ensuring high data accuracy and audit readiness.
- Utilized Python, Pandas, and NumPy to perform complex data cleaning, statistical analysis, and anomaly detection, identifying discrepancies and improving data quality for audit processes.
- Developed predictive models using scikit-learn and TensorFlow to forecast potential compliance risks, helping the organization proactively address and mitigate issues.
- Designed and deployed interactive audit dashboards with Power BI, providing real-time visibility into compliance metrics and audit findings for stakeholders.
- Automated financial compliance reporting with Advanced Excel and VBA, significantly reducing manual errors and enhancing the efficiency of audit processes.
- Migrated and integrated financial audit data to cloud platforms using AWS, Redshift, and Snowflake, ensuring seamless access and scalability for audit and compliance teams.
- Conducted in-depth analysis using SAS and R to support audit investigations, including regression analysis and time series forecasting, leading to data-driven insights for regulatory compliance.
- Collaborated with IT and legal teams to implement robust data security measures, ensuring compliance with financial regulations and protecting sensitive data within Oracle and SQL Server environments.
- Provided audit teams and senior management with actionable insights and recommendations, enhancing the organization's compliance posture and reducing potential regulatory fines.

Tech Stack: SQL, MySQL, Apache Hive, Python, Pandas, NumPy, scikit-learn, TensorFlow, Tableau, Power BI, QlikView, Advanced Excel, VBA, AWS, Redshift, Snowflake, SAS, R, Oracle, SQL Server.