Praneeth Reddy Pachika
Data Analyst

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Professional Summary:

- Data Analyst with 5+ years of experience in leveraging data to drive business decisions and improve operational efficiency.
- Expertise in data analysis, predictive modeling, data visualization, and ETL processes. Proficient in SQL, Python, Machine Learning (Scikit-learn, TensorFlow), Tableau, Power BI, Qlik Sense, Apache NiFi, Azure Synapse Analytics, Apache Spark, Hadoop, AWS, SAS, R, Excel and statistical software.
- Experience in Agile methodologies, data governance, and regulatory compliance (Basel III, HIPAA, FinCEN).
- Proven ability to collaborate effectively with cross-functional teams, communicate complex data insights to stakeholders and deliver high-quality, data-driven solutions that support business growth and achieve key objectives.

Technical Skills:

Programming Languages:	Python, SQL, Java
Machine Learning:	Scikit-learn, TensorFlow, K-Means, ARIMA, Prophet
Data Visualization:	Tableau, Power BI, Qlik Sense, Matplotlib, Seaborn
Database Management:	MySQL, PostgreSQL, Snowflake, Azure Synapse Analytics
Data Engineering:	Apache NiFi, Apache Spark, Hadoop, SSIS
Statistical Tools:	SAS, WEKA
Data Analysis:	Advanced Excel (Pivot Tables, Macros), A/B Testing
ETL & Automation:	Apache Spark, SSIS, Python Scripts, AWS Cloud Platform
Version Control:	Git, GitHub
Project Management:	JIRA, Confluence, Agile (Scrum, Kanban)
Regulatory Compliance:	HIPAA, FinCEN Guidelines, Basel III Standards
Business Intelligence:	Dashboards, KPIs, Competitive Benchmarking
Statistical Methods:	Exploratory Data Analysis (EDA), Time Series Analysis, Hypothesis Testing, Regression Analysis
Data Quality:	Data Cleaning, Transformation, Quality Control Mechanisms
E-commerce Analytics:	Cart Abandonment, Customer Lifetime Value, Conversion Optimization
Healthcare Analytics:	Patient Flow, Resource Allocation, Compliance Standards (HIPAA)

Professional Experience:
Northern Trust – IL | Aug 2023 – Present
Data Analyst

- Developed and deployed predictive machine learning models (using Scikit-learn, TensorFlow) to assess credit risk and detect fraudulent activities, achieving a 15% reduction in loan defaults by identifying at-risk accounts early and recommending mitigations.
- Spearheaded the automation of ETL workflows using Apache NiFi and Azure Synapse Analytics, optimizing data pipelines for 30% faster data processing and ensuring timely data availability for downstream financial analytics and reporting.
- Implemented robust data quality control mechanisms to ensure 98% accuracy in Anti-Money Laundering (AML) reporting data, significantly reducing compliance discrepancies and aligning with regulatory standards, including FinCEN guidelines.
- Designed and developed interactive Tableau dashboards that visualized critical financial KPIs, including loan default rates, fraud incidents, and regulatory compliance metrics, enhancing decision-making efficiency by 20% for senior stakeholders.
- Optimized complex SQL queries on large financial datasets stored in MySQL and PostgreSQL, reducing report generation time by 25%, and ensuring high-performance data retrieval and analysis for financial reporting.
- Collaborated in Basel III regulatory reporting efforts, automating the generation of capital adequacy and liquidity ratio reports, ensuring adherence to regulatory requirements and improving reporting accuracy and timeliness by 20%.
- Managed and enforced version control protocols using Git, promoting seamless collaboration within cross-functional teams and ensuring proper version tracking for financial models, analysis scripts, and reports.
- Conducted in-depth root cause analysis on discrepancies in transactional data, leveraging SQL and data visualization tools to trace errors, ensuring corrective actions were swiftly implemented to maintain data integrity.
- Utilized SAS for advanced statistical modeling and data analysis, providing actionable insights into customer behavior and financial trends, which led to more targeted marketing strategies and enhanced customer retention efforts.
- Partnered closely with Anti-Money Laundering (AML) teams to ensure effective monitoring of financial transactions and compliance with FinCEN guidelines, contributing to the proactive identification of suspicious activities.
- Developed Python-based automation scripts for financial reporting workflows, cutting manual report generation time by 40%, and streamlining routine operational processes to focus on high-priority analysis tasks.

Wipro – India | Aug 2020 – Nov 2022
Data Analyst

- Spearheaded the creation of a dynamic healthcare analytics dashboard utilizing Qlik Sense, achieving a 30% reduction in reporting time for stakeholders through real-time data visualization and interactive reporting features.
- Engineered automated data cleaning and transformation workflows using Python, resulting in a 25% enhancement in data accuracy and reliability, thereby facilitating more informed decision-making processes.
- Executed advanced SQL queries to streamline data extraction processes, leading to a 40% decrease in query execution time and significantly improving the efficiency of data retrieval operations.
- Conducted comprehensive exploratory data analysis on patient datasets, uncovering critical trends and insights that directly influenced strategic healthcare initiatives and operational improvements.
- Designed and maintained robust data pipelines using SSIS (SQL Server Integration Services) to ensure seamless integration and transformation of data from diverse healthcare sources, enhancing data availability for analysis.
- Performed in-depth root cause analysis to identify and resolve discrepancies in healthcare data, implementing corrective actions that improved data integrity and reliability across reporting systems.
- Managed project tasks and Agile workflows through JIRA, ensuring adherence to timelines and deliverables, while fostering collaboration among cross-functional teams for efficient project execution.
- Leveraged advanced Excel functionalities, including pivot tables and macros, to conduct ad-hoc reporting and in-depth analysis, providing stakeholders with actionable insights and data-driven recommendations.
- Ensured strict compliance with healthcare regulatory standards, including HIPAA, by implementing best practices for data security and integrity and safeguarding sensitive patient information.
- Engaged in sophisticated data mining activities using WEKA, extracting actionable insights from complex healthcare datasets to support clinical and operational decision-making.
- Collaborated with IT teams to oversee the management and maintenance of healthcare data repositories in Snowflake, ensuring optimal performance and accessibility of data for analytical purposes.
- Designed and implemented impactful data visualization solutions using Matplotlib and Seaborn, enhancing reporting capabilities and enabling stakeholders to interpret complex data intuitively.

Neeman's – India | Dec 2018 – Jul 2020
Data Analyst

- Developed and deployed customer segmentation models leveraging advanced machine learning algorithms (K-Means, Clustering) in Python, resulting in a 35% increase in targeted marketing campaign effectiveness and a 15% lift in customer conversion rates.
- Designed, implemented and monitored predictive demand forecasting models utilizing time series analysis (ARIMA, Prophet) in Python, leading to a 27% improvement in inventory accuracy, a 10% reduction in stockout incidents, and a 5% decrease in holding costs .
- Developed and maintained interactive dashboards in Power BI, visualizing key e-commerce operational metrics (daily sales, website traffic, conversion rates, customer churn) for executive leadership, providing actionable insights for data-driven decision-making.
- Conducted A/B testing on pricing strategies, marketing campaigns, and website design variations using statistical analysis and data visualization, identifying optimal conversion optimization techniques that resulted in a 7% increase in average order value.
- Developed and deployed automated ETL pipelines using Apache Spark and Hadoop on the AWS cloud platform, reducing data processing time by 40% for large-scale datasets, improving data quality, and increasing data availability for real-time analysis.
- Monitored and analyzed key e-commerce KPIs (cart abandonment rates, average order value, customer lifetime value, customer churn) to identify trends, anomalies and areas for improvement, leading to data-driven strategies that increased customer retention by 5%.
- Conducted competitive benchmarking analysis using data mining techniques and industry best practices, identifying key competitive advantages and areas for improvement in product offerings, pricing strategies, and customer experience.
- Managed end-to-end data analysis projects using Agile methodologies (Scrum, Kanban) tracked through JIRA and Confluence, ensuring project timelines, budgets and deliverables are met.

Education:

Master of Science in Finance - Illinois Institute of Technology, Chicago, IL, USA.

Bachelor of Electronics and Communications Engineering – Jawaharlal Nehru Technological University, Hyderabad, India.