Ranga Rao Kosaraju

Data Analyst

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**Summary:**

* Accumulated over 5+ years of experience as a Data Analyst, consistently demonstrated the capability to extract valuable insights from data and translate them into actionable strategies contributing to business success.
* Proficient in methodologies such as SDLC, Agile, and Waterfall, ensuring seamless integration of data analysis into project management processes.
* Skilled in programming languages including R, Python, and SQL, proficiently utilizing them for data manipulation, statistical analysis, and database querying.
* Experienced in utilizing data analysis packages like NumPy, Pandas, Matplotlib, SciPy, and ggplot2 for advanced data manipulation, visualization, and statistical modeling.
* Proficient in visualization tools such as Tableau, Power BI, and Microsoft Excel, creating visually compelling dashboards and reports to communicate insights effectively.
* Familiar with database technologies including MySQL and MS SQL Server, adept at data cleaning, wrangling, and optimizing database performance.
* Experience in various SDLC phases, including Analysis, Requirements gathering, and designing.
* Documentation skills include requirement specifications, functional specifications, Test Plans, Source Target mappings, and SQL joins.
* Expertise in building data models, migration plans, and project completion using Snowflake.
* Skilled in using Excel Pivot and VBA macros for diverse business scenarios.
* Tested Business Intelligence reports from tools like Cognos and Business Objects.
* Extensive ETL testing experience using Informatica 8.6.1/8.1 (Power Center/Power Mart).
* Proficient in creating DML statements for underlying data.
* Strong understanding of design, normalization, and Database Management Concepts.
* Experienced in data mining, querying, and analyzing large datasets, especially in examining financial data.
* Produced tables, reports, graphs, and listings using various procedures for complex data manipulation.
* Adept at collaborating with business users, project managers, team leads, architects, and peers.
* Skilled in preparing project documentation and regularly tracking and reporting on project status to stakeholders.

**Technical skills:**

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| Methodologies: | SDLC, Agile, Waterfall |
| Programming Languages: | R, Python, SQL |
| IDE’s: | **Visual Studio Code, PyCharm** |
| Packages: | NumPy, Pandas, Matplotlib, SciPy, ggplot2 |
| Visualization Tools: | Tableau, Power BI, Microsoft Excel  |
| Database Technologies: | MySQL, MS SQL Server |
| Analytical Skills: | Data Cleaning, Data Wrangling, Critical Thinking, Data Modelling, Data Manipulation. |
| Cloud Technologies: | AWS( EC2, S3, Lambda)  |

**Core Skills**

Data Visualization, Python, scikit-learn, Pandas, NumPy, Data Mining, Excel, SQL, MSSMS, Power Bi &

Tableau Dashboard Development, Ai Automation, GPTs, Data Wrangling, Analyzing Data, Analytical

Skills, Excellent Communication, Data Analysis Tools, Computer Science, Machine Learning, Natural

Language Processing, NLP, Langchain, Autogen, CrewAi, Business Intelligence, SAT, MS Azure, API,

Keras, PyTorch, TensorFlow, MatplotLib, team-oriented, Data Modeling, ETL Tools, Data Insights,

Database Management.

**Professional Experience:**

**State of Maryland, MD Aug 2023- Current**

**Data Analyst**

* Acquire, clean, and preprocess large datasets from diverse sources including customer databases, claims records, and market data. Ensure data accuracy, completeness, and integrity to maintain high-quality datasets.
* Perform exploratory data analysis to identify trends, patterns, and correlations using statistical tools and techniques Generate comprehensive reports and visualizations to communicate findings effectively to stakeholders and management. Create and run regular dashboards and reports that highlight performance by different segmentsthrough systematic calculation of net sales prices to control purchasing and item margins. Creating visualizations to communicate findings effectively
* Develop predictive models leveraging machine learning algorithms to forecast customer behavior, risk assessment, and market trends. Implement models to optimize decision- making processes in areas such as pricing, underwriting, and customer retention strategies.
* Collaborate with business units to understand requirements and translate them into analytical solutions that drive business outcomes. Provide actionable insights and recommendations based on data analysis to support strategic planning and operational efficiency.
* Analyzed healthcare datasets using Python libraries, driving informed decision-making in healthcare management.
* Proficient in using advanced Excel functions for data manipulation and analysis.
* Crafted and implemented comprehensive dashboards using Power BI, leading to improved patient-caregiver engagement and cost savings.
* Engineered automated data cleansing pipelines in Python, enhancing data accuracy through anomaly detection and correction.
* Efficiently used Power Query for data transformation, streamlining data preparation processes and elevating data accuracy standards.
* Utilized Amazon EC2 instances for data analysis and processing tasks, leveraging the scalable computing power of the cloud.
* Employed Amazon S3 buckets for secure and scalable data storage, ensuring data availability and durability.

**Environment:** Python, postgresql,Mongo DB, Informatica, Github and Jenkins.

**Cybernet Software Systems, India Mar 2019- Dec 2021**

**Data Analyst**

* Translated business objectives into data engineering requirements and conducted comprehensive data analysis, visualization, and presentation to inform decision-making processes.
* Executed end-to-end data engineering tasks including data collection, cleansing, feature scaling, engineering, validation, and visualization using Python libraries such as NumPy, Pandas, Scipy, and Scikit-Learn.
* Developed and deployed data products, including scalable data pipelines and models, leveraging cloud platforms like AWS and services such as S3 to optimize data processes and ensure efficient data handling.
* Collaborated closely with cross-functional teams to analyze data requirements, design and implement scalable data models, resulting in a significant increase of 30% in data processing efficiency to support the company’s growth initiatives.
* Monitored the performance of the Snowflake platform and implemented performance tuning strategies and optimizing SQL queries.
* Demonstrated effective communication skills to convey data-driven insights to stakeholders, influencing decision- making processes, and providing coaching and mentorship to non-technical colleagues on leveraging data for informed decision-making.

**Environment:** SQL, Java,Eclipse, IntelliJ Idea, Rally, Unix, Linux, C++

**Axtia Hyderabad, India Dec 2017– Feb 2019**

**Junior Data analyst**

* Collaborated with cross-functional teams to gather data and assisted in managing S3 buckets on AWS.
* Utilized ETL processes and Python for data wrangling and analysis.
* Generated reports using SQL, MS Excel, and SharePoint, providing valuable insights for decision-making.
* Translated requirements into actionable reports and conducted ad-hoc analyses.
* Assisted in managing servers on the AWS platform using Puppet configuration management.
* Contributed to ensuring that analyses and solutions align with business objectives.
* Supported data validation efforts and produced standard reports and Tableau dashboards.

**Ivy Comptech Hyderabad, India April 2017– Nov 2017**

**Data analyst intern**

* Designed and managed data models and databases, generating dashboards and reports using Tableau.
* Participated in data requirements gathering and analysis efforts, translating business requirements into technical specifications.
* Assisted in executing data migration test plans and cases, validating data accuracy and completeness.
* Utilized SQL queries for data reconciliation and developed Tableau workbooks and data extracts.

**Education:**

**Masters in Data Science Jan 2022- May 2023**

Pace University, NY

**Bachelors of Technology in Electronics & Communication Engineering 2013 - 2017**

Satyabhama Institute of Technology- India