DINAKER REDDY

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SUMMARY

Over five years of expertise as a data engineer building and optimizing scalable data solutions for a variety of businesses. proficiency in cloud-based data engineering, data architecture, and ETL pipeline building with practical knowledge of AWS, Azure, and Snowflake. shown proficiency with Python, SQL, and Kafka for the ingestion, transformation, and analysis of massive datasets, guaranteeing data integrity and operational effectiveness. competent in data governance, database performance improvement, and CI/CD automation. strong foundation in analytics, real-time streaming, and data modeling, with an emphasis on improving business decision-making via reliable data infrastructure.

Work Experience

Fitch Ratings   August 2023 – present
Data Engineer   *United states*

- Developed a real-time data ingestion pipeline using Python and Kafka, optimizing financial data processing for risk assessment and forecasting. Stored structured data in PostgreSQL on AWS, improving query response times by 40%
- Deployed data processing applications on AWS EKS, ensuring 99.9% uptime and scalable data pipelines for automated financial reporting
- Automated customer reporting workflows using Python and SQL, reducing report delivery time by 50% and improving data accuracy for stakeholders.
- Implemented CI/CD pipelines using Bamboo, reducing data pipeline deployment time by 40% and minimizing manual intervention in data updates.
- Managed and optimized Enterprise Analytics solutions, ensuring data accuracy, consistency, and accessibility for key business stakeholders.
- Led the design, implementation, and governance of data storage solutions, improving data accessibility and performance
- Performed data migration to **Snowflake** from traditional data warehouses, ensuring minimal downtime and maintaining data integrity during migration to a cloud-based environment.

Technologies Utilized: Python, Kafka,AWS,EKS.

Citibank   January 2021 – August 2022
Data Engineer   *Mumbai, India*

- Worked closely with clients to gather, analyze, and translate requirements into actionable data specifications, using analytical tools to interpret data, identify trends, and deliver insights that met client needs.
- Automated financial transaction data cleaning using Python, reducing data processing time by 30% and increasing data accuracy for risk assessment models.
- Utilized **Power Query** to import, clean, and transform data from various sources, including SQL databases, Excel, and cloud services, ensuring accurate and up-to-date information for analysis.
- Created custom **DAX** (Data Analysis Expressions) measures and calculated columns to enhance data analysis capabilities and generate complex calculations and KPIs in **Power BI** reports.
- Led the creation of interactive dashboards and reports leveraging **Power BI**, elevating data visualization capabilities and empowering strategic decision-making with real-time business intelligence.
- Utilized **Power BI and Microsoft Excel** for data analysis and report generation, resulting in a 70% increase in data-driven decision- making accuracy.
- Developed Azure Data Factory ETL pipelines to integrate data from SQL Server, Azure Blob Storage, and Snowflake, reducing data processing latency by 40%.
- Developed Azure Data Factory ETL pipelines to automate data ingestion, transformation, and storage from SQL databases to Azure SQL Data Warehouse, reducing ETL latency by 40% and ensuring real-time data availability for stakeholders.
- Wrote optimized **SQL queries** for efficient data retrieval and reduced the runtime of SQL Queries by 2 seconds.
- Designed PySpark workflows to process 1M+ financial records, reducing data preprocessing time by 40% and enabling faster financial risk analysis.
- Managed and tracked project tasks using JIRA, ensuring seamless communication between cross-functional teams and timely completion of data analysis assignments.

Technologies Utilized: Python, Microsoft SQL Server,Microsoft Azure,Microsoft Power BI.

Tezo <div align="right">**July 2019 – January 2021**</div>

Data Engineer <div align="right">*Hyderabad, India*</div>

- Utilized **Python** for data cleaning, manipulation, and statistical analysis, enhancing the reliability and usability of datasets for analytical purposes.
- Wrote complex ad-hoc **MySQL** queries involving correlated subqueries, window functions and common table expressions to track user activity metrics such as retention rate and daily active user.
- Optimized MySQL queries using indexing and query tuning techniques, reducing query execution time by 40% on datasets exceeding 10 million records
- Wrote T- SQL queries involving multiple joins, subqueries and common table expression to perform data aggregation for reporting.
- Developed dashboards in **Power BI**and present data to track KPIs and product performance using data from various sources such as MS Excel, AWS S3, AWS RDS, AWS Redshift, JSON and XML.
- Developed and optimized ETL pipelines to extract data from Salesforce, leveraging tools like Python and SQL, and integrated the data into a cloud-based data warehouse for advanced analytics.
- Developed and maintained Excel spreadsheets for tracking and reporting purposes, streamlining data management and facilitating decision-making.
- Collaborated with marketing and sales teams to analyze campaign effectiveness and optimize promotional strategies based on data-driven insights.
- implemented machine learning model including Decision Trees and Logistic Regression to predict revenue from returning customers to help the market team take appropriate promotion strategy using Python.
- Performed A/B testing to improve user experience of the website.
- Implement machine learning models to predict customer behavior and sales trends.

Technologies Utilized: Python,Tableau ,Machine Learning

Projects

India imports and exports dashboard using Tableau. | *Tableau,excel*
- Integrated diverse data sources to provide a comprehensive view of India's import/export activities.

FIFA World Cup 2022 Analysis | *Microsoft SQL Server*
- Utilized SQL to analyze FIFA World Cup 2022 data, extracting insights on match statistics, player performance, and team strategies.

T20 world cup data analysis | *Python,powerBI*
- Implemented the data analysis on cricket and we took data from ESPN by web scraping.

Disease Prediction and Drug Recommendation using Machine Learning | *Python, Excel*
- Built a disease prediction model using Python and scikit-learn with 90% accuracy, deploying it via Flask to recommend personalized drug treatments based on patient symptoms.

Technical Skills

Programming Languages: Python, SQL, Java, C/C++,R.
Database: MySQL, Oracle, PostgreSQL, MS SQL server.
Visualization Tools:: Tableau, PowerBI,Excel
Frameworks: Scikit-Learn, Matplotlib, Numpy, Pandas, Flask, TensorFlow, PyTorch, GraphQL.
Technologies/Frameworks: Linux, Jenkins, GitHub, Web scraping, Data analysis, Data collection, Feature engineering, ETL, Azure Data Factory (ADF), Azure Synapse Analytics, Alteryx ,Azure Databricks. ,Statistical analysis,AWS S3, Glue, Redshift, Athena, Lambda,Salesforce CRM, Excel,Modeling, SSMS, SSRS, SSIS, Azure, Agile Methodology, SDLC.

Education

Florida International University (FIU) <div align="right">**Aug. 2022 – May 2024**</div>

Master of Science in Computer Science , Grade:3.87/4 <div align="right">*Miami, Florida*</div>

IARE, India <div align="right">**Aug. 2016 – May 2020**</div>

Bachelors of Science in Computer Science, Grade:8.31/10 <div align="right">*Hyderabad,India*</div>

Certification / Extracurricular Activities

- Data Analytics Essentials by Cisco.   [certificate]

- Programming for Everybody (Getting Started with Python),Python Data Structures,Using Databases with Python by University of Michigan from Coursera   [certificate] [certificate]

- Competed in Hackathon conducted by the LTIMINDTREE and are in top 10 teams to implement a project.

- HTML, CSS, and Javascript for Web Developers by Johns Hopkins University from coursera.   [certificate]