Reddy Sai Krishna Sanda

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Summary

Dynamic and results-oriented professional with a Master of Science in Information Technology from the University of North Carolina at Charlotte. With a solid foundation in information technology, I possess extensive experience in leveraging a diverse array of tools and technologies to drive impactful solutions in data analytics and software engineering. Experienced in using Tableau and Power BI to create compelling and informative visualizations from complex data structures. Seeking opportunities to contribute my skills and expertise in a dynamic and collaborative environment focused on innovation and excellence. Passionate about leveraging emerging technologies and innovative approaches to solve complex challenges and contribute to organizational success.

Technical Skills

Tools:	Tableau, Qlik, Power BI, VS Code, GIT, JIRA, BitBucket, Excel, Work Bench, Hadoop, Spark, Jenkins, Looker, Postman
Technologies:	Salesforce, AWS (S3, EC2, Athena, Glue, Lambda Sage Maker, Red Shift, Data Pipeline, Kinesis), Azure (ADF, Databricks, Data Lake Analytics, Stream Analytics), Snowflake, Apache Spark
Languages:	Python, SQL, HTML, CSS, Java, C, JavaScript, Node.js, PHP
Packages:	NumPy, Pandas, Matplotlib, SciPy, Scikit-learn, Seaborn, TensorFlow, PyTest
Certifications:	AWS Academy Data Analytics (AWS), Google Data Analytics (Coursera), Tableau (Data Camp), Python (Progate)

Work Experience

The University of North Carolina at Charlotte
Charlotte, USA

Graduate Assistant *Sep 2022 – Dec 2023*

- Leveraging **Tableau**, essential insights were extracted through the creation of diverse charts, facilitating the synthesis of meaningful findings to construct a cohesive narrative encompassing the entirety of the dataset.
- Deployed over 10 efficient data ingestion pipelines leveraging **AWS Glue**, **Amazon EMR**, and **Amazon S3** storage, resulting in a 30% reduction in data processing time.
- Successfully integrated data from 15 diverse sources, including **RDS** databases, **Redshift** databases, S3 objects, and RESTful APIs, resulting in a 40% increase in data availability and accessibility.
- Improved data retrieval efficiency by implementing advanced query optimization and indexing techniques, leading to a 25% decrease in query execution time.
- Engineered and deployed 5 custom functions using **AWS Lambda**, **Amazon EMR**, and **AWS Glue** scripts for seamless **data transformation**, **cleansing**, and **validation**, resulting in a 20% improvement in data quality and accuracy.

Accenture Solutions Pvt. Ltd
Bengaluru, India

Associate Software Engineer *Apr 2020 - Jul 2022*

- Created dynamic reports using **AWS QuickSight**, enhancing data accessibility and comprehension among financial analysts and enhanced report interactivity through **AWS Lambda** integration, enabling real-time data updates and drill-down capabilities.
- Implemented **AWS Glue** for automated data cleansing and validation processes, resulting in a 40% reduction in data discrepancies.
- Worked on **SQL scripts** to perform data quality checks, ensuring compliance with regulatory standards and industry regulations.
- Used **Python** and **SQL** to analyze financial datasets stored in **AWS S3** and **Redshift**. Conducted comprehensive data analysis, resulting in a 70% improvement in identifying market trends and investment opportunities.
- Handled creating complex **stored procedures, triggers, tables, views**, and other **SQL joins** and statements for applications yielding a 20% improvement in database efficiency.
- Implement the application of various **machine learning algorithms** and **statistical modelling** like decision trees, logistic regression, linear regression, and random forests using Python to determine the accuracy rate of each model and achieved a **98% accuracy rate** in predicting market movements through rigorous model testing and validation.
- Participated in workshops on AWS technologies such as S3, Redshift, and Glue to upskill team members and enhance project delivery capabilities.
- Spearheaded the adoption of emerging technologies such as AWS Lambda and Glue to optimize data processing workflows, reducing processing time by 30%.
- Designed and developed dynamic and visually engaging dashboards using **Tableau**, serving as a crucial platform for presenting data insights and **key performance indicators (KPIs)** to stakeholders. This initiative directly contributed to a significant 25% increase in revenue.

LeewayHertz
Bengaluru, India

Data Analyst Intern *Jan 2020-Mar 2020*

- Utilized Python scripts and **Azure Data Factory** to extract and transform millions of records of structured and semi-structured data from various sources, including SQL databases, flat files, and **APIs**. This process ensured seamless data flow and reduced manual effort by 50%.
- Crafted highly efficient **ETL** (Extract, Transform, Load) pipelines utilizing Python and **PySpark** within **Azure Databricks** framework, resulting in an 80% enhancement in overall data quality through data cleansing, validation, and standardization processes.
- Designed and implemented a centralized data lake on **Azure Storage**, facilitating seamless **data ingestion**, storage, and retrieval.
- Responsible for handling **Azure Data Lake Analytics** and Databricks to perform complex analytical queries and data processing tasks on the ingested data.
- Transformed **Snowflake** data into **JSON** objects on **Azure Databricks** using **PySpark**, facilitating a 20% reduction in storage costs by optimizing data storage in Azure Data Factory, and Rendered Snowflake view data in PowerBI, leading to a 15% increase in user engagement with visually compelling dashboards.
- Performed exploratory data analysis and uncovered valuable insights by applying statistical techniques and machine learning models using Python and SQL to uncover valuable insights that led to a **90%** improvement in a key performance indicator for the medical client.

- Developed interactive dashboards and reports in **PowerBI** to visualize and communicate critical findings, facilitating data-driven decision-making across various departments.
- Experienced real-time data ingestion pipelines using **Azure Stream Analytics**, enabling the analysis, and processing of streaming data from IoT devices and other sources, facilitating faster response times and improved operational efficiency.

Education

The University of North Carolina at Charlotte, Charlotte, North Carolina, USA *GPA: - 3.9/4.0*

Master of Science in Information Technology *Aug 2022 - Dec 2023*

Dayananda Sagar Academy of Technology and Management, Bengaluru, India *GPA: - 8.41/10*

Bachelor of Engineering in Information Science Engineering *Aug 2017 - Jul 2021*

Project Works

IPL Dashboard Analysis / Python, Streamlit, Altair, PyCaret, Excel/ *Feb 2023 - Apr 2023*

- **Processed** and **analyzed structured data** in **Excel**, achieving a 90% increase in data accuracy. Developed interactive dashboards using **Streamlit**, facilitating user engagement and **data exploration**. **Visualized** player **statistics** and performance **trends** spanning multiple years, enhancing data comprehension.

California House Price Prediction / AWS Sage Maker, Lambda, Glue, Athena, Python, Tableau/ *Sep 2022 - Nov 2022*

- Transformed **unstructured data** into **structured** format through **data cleansing**. Built a **Quick Sight visualization dashboard** which provides a holistic view of all datasets thereby reducing time spent by 80%. Enhanced understanding of median house prices across different locations, resulting in a **20%** increase in the efficiency of real estate investments.

Hospital Database Management System/ Python, MySQL / *Nov 2022 - Dec 2022*

- Designed a robust and secure storage system for hospital data, providing an efficient and organized solution for managing critical healthcare information. This project is designed to enhance data accessibility, security, and overall workflow efficiency within hospital environments. GUI is developed with the help of Python and all the records operations will be done with the help of MySQL.

Detecting CORONA VIRUS using chest X-ray images / Python, Pandas, CNN, Tkinter, SQL / *Oct 2021 - Dec 2021*

- With the help of a **Convolutional Neural Network** (CNN) model that secured **94% accuracy** in classifying coronavirus infections using chest X-ray images. Utilized CNN techniques for feature mapping, improving the model's predictive capabilities, and implemented preprocessing and segmentation methods to identify lung nodules, contributing to early detection of COVID-19.