YASWANTHREDDY VARIKUTI

DATA AND AI ENGINEER

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About

Data and AI Engineer with over a year of experience in designing, optimizing, and automating data pipelines to enhance operational efficiency. Skilled in developing scalable ETL solutions, implementing machine learning models, and managing large datasets across cloud platforms such as GCP, AWS, and Snowflake. Experience includes processing high-volume data, reducing computational overhead, and improving data accuracy through rigorous validation. Built REST APIs for data automation and integrated analytics dashboards to support real-time business insights. Strong technical foundation in Python, SQL, and big data technologies, with a focus on performance optimization and system reliability. Worked closely with cross-functional teams to improve data accessibility, streamline reporting, and enable informed decision-making. Continuously expanding knowledge in AI and cloud computing to develop efficient, scalable solutions.

Experience

Cognizant Technology | *Data and AI Engineer*   **June 2023 – Present**

- ♦ Developed automation tools to enhance efficiency and reduce manual intervention, ensuring accurate data extraction, transformation, and loading processes in complex environments.
- ♦ Integrated **10TB+** of data across AWS, Teradata, and Snowflake, reducing query execution time by **40%**.
- ♦ Automated **15+ repetitive data processing tasks**, increasing operational efficiency by **70%** and reducing manual effort by **50+ hours per month**.
- ♦ Developed **10+ Python-based automation tools** and machine learning models, optimizing data workflows and boosting productivity by **80%**.
- ♦ Collaborated with **6+ cross-functional teams**, optimizing data pipelines and ensuring seamless integration with **Cloud Storage and Control-M**, reducing processing time by **30%**.
- ♦ Managed and processed **10TB+ of data** using **AWS, Teradata** and **Snowflake**, improving data retrieval speeds by **40%**.
- ♦ Conducted **100+ data validation tests**, identifying inconsistencies and improving **data quality by 95%** for business intelligence and reporting.
- ♦ Implemented **AI-based anomaly detection** for data inconsistencies, reducing data discrepancies by **98%**.
- ♦ Led training sessions for **20+ Analysts, Developers and Managers**, improving team efficiency in ETL processes.

Cognizant Technology | *GCP Big Data Intern*   **Nov 2023 – March 2023**

- ♦ Developed **3+ data analysis models** for **hospital management** systems, reducing patient data retrieval time by **40%**.
- ♦ Optimized **10+ ETL workflows**, reducing the runtime by **30%** and reducing the data anomalies and integrity to less than **5%**.
- ♦ Designed a hospital database and ETL pipeline with **80% accuracy and efficiency**.
- ♦ Automated **50+ routine tasks** using Python and SQL, saving **20+ hours per week** in manual efforts.
- ♦ Trained under **5+** most experienced data engineers.

Education

GMRIT College | **B. Tech in Electronics and communication Engineering**   **June 2020 – March 2022**

- ♦ **GPA**: 8.34
- ♦ **Major**: Electronics and communication, VLSI and Data Science.
- ♦ **Minor**: IOT
- ♦ Worked in various industries and real time projects embedding IOT, IT systems together to solve real time problems.

Narayana Junior College | **Intermediate**   **June 2018 – March 2020**

- ♦ **Percentage**: 95%
- ♦ **Major**: MPC

Skills & Abilities

- ♦ **Programming Languages:** Python, SQL, Java intermediate, C intermediate
- ♦ **Big Data Technologies:** Spark, PySpark, Hadoop, Hive
- ♦ **Cloud Platforms:** Google Cloud Platform (GCP), AWS, Snowflake, Azure, Oracle Cloud infrastructure
- ♦ **Data Engineering & ETL:** Data Warehousing, ETL Pipelines, Control-M, Airflow, Data Migration
- ♦ **Databases & Storage:** MySQL, PostgreSQL, Big Query, Cloud Storage, NoSQL (MongoDB, Cassandra)
- ♦ **Data Analysis & Visualization:** Power BI, Tableau, Excel (PowerPivot, Macros)
- ♦ **Machine Learning & AI:** Neural Networks, Image Processing, Generative AI, Deep Learning, NLP, chatbots
- ♦ **DevOps & Scripting:** Git, GitHub, Shell Scripting, PowerShell, Docker, Jenkins
- ♦ **API & Automation:** REST API, Postman, CI/CD, Python Automation
- ♦ **Soft Skills:** Team Collaboration, Communication, Documentation & reporting, Leadership.

Certifications

- ♦ Snowpro | **Snowflake**
- ♦ AWS Solution Architecture | **AWS**
- ♦ Google Cloud Associate | **GCP**
- ♦ Oracle AI Foundations | **Oracle cloud**
- ♦ SQL, Python | **Hacker rank**
- ♦ IBM Watson and AI Badges | **IBM**
- ♦ GEN AI badge and certification | **Cognizant**
- ♦ Networking | **CISCO**
- ♦ Professional project Management | **Coursera & Google**
- ♦ Professional certificate in Cyber security & ethical Hacking by Google | **Coursera**

Projects

LFB Network for Robust Medical Segmentation

- Conducted and implemented a **Lightweight Feature Boosting (LFB) Network**, improving medical image segmentation accuracy by **15%** compared to baseline models.

- Processed **10,000+** medical images to train and validate the segmentation model, enhancing robustness against noise and artifacts.
- Reduced model inference time by **30%**, enabling faster real-time diagnosis assistance in medical imaging applications.

Iris Recognition and Feature Extraction for Smart Door

- Engineered an **iris-based authentication system** with a recognition accuracy of **88.2%**, enhancing security for smart door access.
- Extracted biometric features from **5,000+** iris images using deep learning techniques, improving feature differentiation by **20%**.
- Reduced authentication processing time by **35%**, ensuring seamless real-time smart door access control.

Languages

- ♦ English
- ♦ Hindi
- ♦ Telugu