# YASWANTHREDDY VARIKUTI

# DATA AND AI ENGINEER

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# **Summary**

Data & AI Engineer with expertise in automating data pipelines, optimizing ETL processes, and deploying scalable cloud solutions. Skilled in machine learning, big data technologies, and cloud platforms like GCP, AWS, and Snowflake. Focused on improving system performance, integrating AI-driven analytics, and ensuring data accuracy for business insights. Experienced in developing secure, efficient workflows that enhance decision-making and operational efficiency across diverse industries.

## **Experience**

## Cognizant Technology (Data and AI Engineer)

June 2023 - Present

- Integrated 10TB+ of data across AWS, Teradata, and Snowflake, reducing query execution time by 40%.
- Reduced manual efforts by 70% by automating 15+ data workflows, saving 50+ hours per month.
- Created 10+ AI driven automation tools & ML models, improving workflows & boosting productivity by 80%.
- Collaborated with 6+ cross-functional teams, optimizing data pipelines and ensuring seamless integration with Cloud Storage and Control-M, minimized processing time by 30%.
- Conducted 100+ data validation tests, identifying inconsistencies and improving data quality by 95% for business intelligence and reporting.
- Revised ETL pipelines, improving data ingestion performance by 30% across Cloud Storage and Control-M, ensuring effective teamwork and collaboration with cross-functional teams.
- Implemented AI-based anomaly detection for data inconsistencies, reducing data discrepancies by 98%.
- Led training sessions for 20+ analysts, developers, and managers, fostering collaboration, mentorship, and effective delivery skills.

## Cognizant Technology (Big Data Engineering Intern)

January 2023 – May 2023

- Engineered over three data analysis models for hospital administration systems, decreasing 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 & ETL pipeline, achieving 80% efficiency in data processing.
- Automated 50+ tasks using Python & SQL, saving 20+ hours / week.
- Mentored by 5+ senior data engineers, gaining hands-on expertise in big data, ML, and cloud technologies, demonstrating a willingness to **learn** and **open-mindedness**.

#### **Education**

GMRIT College | B. Tech in Electronics and communication Engineering

June 2018 - March 2022

• GPA: 8.34 Minor: IoT and Data Science.

Narayana Junior College | Intermediate

June 2016 - March 2018

• 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, Excel (PowerPivot, Macros)
- Machine Learning & AI: Neural Networks, Image Processing, Generative AI, Deep Learning, NLP, chatbots, Scikit-learn, PyTorch, Keras, TensorFlow, NumPy
- **DevOps & Scripting:** Git, GitHub, Shell Scripting, PowerShell, Docker, Jenkins
- API Integration & Workflow Automation: REST API, Postman, CI/CD, Python Automation

## **Certifications**

- Snowpro Core Certification Snowflake | Expertise: Snowpark, streams, Tasks, Snow pipe, Compute, storage and Machine learning.
- AWS cloud Partitioner Foundation AWS | Expertise: Storage, Athena, IAM, EC2, EMR, Sage Maker, Machine learning.
- Azure Data Science & Machine learning Microsoft | Expertise: Azure storage, Azure Machine learning Designer.
- Google Cloud Associate Engineer GCP | Expertise: storage, Airflow, Pub/ sub, IAM, Machine Learning.
- AI Foundations Certification Oracle Cloud | Expertise: Oracle cloud, Generative AI and Machine learning.
- SQL & Python Certifications Hacker Rank
- IBM Watson & AI Badges IBM
- Generative AI Certification Cognizant | Expertise: Foundational Models, Prompt Engineering.
- Networking Fundamentals Cisco
- Cybersecurity & Ethical Hacking Google (Coursera)
- Project Management Professional Google (Coursera)

## **Projects**

## LFB Network for Robust Medical Segmentation

- Developed a Lightweight Feature Boosting (LFB) Network, improving segmentation accuracy by 15%.
- Identified and rectified a critical image corruption issue affecting 5% of incoming scans, personally correcting 500+ medical images to ensure accurate diagnoses and prevent potential misdiagnoses.
- Experimented machine learning model performance, reducing inference time by 30%, which significantly improved real-time diagnosis support and system responsiveness for medical applications.

## Iris Recognition and Feature Extraction for Smart Door

- Bulit and implemented an iris-based biometric authentication system, achieving 88.2% accuracy, enhancing security, identity verification, and fraud prevention capabilities in smart access control.
- Processed and analyzed over 5,000 iris images, improving feature differentiation by 20%, leading to enhanced recognition accuracy and robustness against varying environmental conditions.
- Accelerated biometric authentication speed, successfully reducing processing time by 35%.