# 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. Proficient in machine learning, big data technologies, and cloud platforms like GCP, AWS, and Snowflake. Passionate about streamlining data workflows, enhancing system performance, and enabling data-driven decision-making.

## 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%**.
- ♦ Automated **15+ data workflows**, reducing manual efforts by 70% and saving **50+ hours/month**.
- ♦ Developed 10+ 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**, reducing processing time by **30%**.
- ♦ 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 (*Big Data Engineering 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+ tasks** using Python & SQL, saving **20+ hours/week**.
- ♦ Trained under **5+** most experienced data engineers.

## 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 & Automation:** REST API, Postman, CI/CD, Python Automation
- **Soft Skills:** Team Collaboration, Communication, Documentation & reporting, Leadership.

## Certifications

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|---|---|
| **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**

- Developed a Lightweight Feature Boosting (LFB) Network, improving segmentation accuracy by **15**%.
- Processed **10,000+ medical images**, enhancing robustness against noise.
- Reduced model inference time by **30%**, enabling real-time diagnosis support.

**Iris Recognition and Feature Extraction for Smart Door**

- Built an iris-based authentication system with 88.2% accuracy.
- Processed **5,000+ iris images**, improving feature differentiation by **20%**.
- Optimized authentication speed, reducing processing time by **35%**.

## Languages

- English **|** Hindi **|** Telugu