

# Varsha Lambu

+91-7288914110 | varshareddylambu@gmail.com | [LinkedIn](#) | [GitHub](#)

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## OBJECTIVE

Information Technology student with practical experience in data engineering, cloud platforms, and machine learning, backed by projects in pipeline automation, ETL workflows, and cloud-native architectures. Built scalable data pipelines and cloud solutions to enable reliable analytics, automation, and data-driven decision-making.

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## EDUCATION

### Bachelor of Engineering in Information Technology

(Nov 2022 - July 2026)

Gokaraju Lailavathi Womens Engineering College, Hyderabad, India

**CGPA:** 8.30/10.0 | **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Operating Systems, Computer Networks, Cloud Computing

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## PROJECTS

### AWS S3 to Snowflake Data Pipeline

- Designed and implemented a **scalable cloud data pipeline** handling schema drift from REST APIs using dynamic mapping in Databricks.
- Utilized **Azure Data Factory** for orchestration with retry mechanisms and alert configurations for pipeline monitoring.
- Implemented **Snowflake Streams and Tasks** for incremental data processing and automated data warehouse updates.
- Applied **dimensional modeling techniques** for optimized data warehouse design and query performance.

### Book Recommendation System Using KNN With Interactive Web Interface| [Link](#)

- Developed an **ML-based recommendation engine** using K-Nearest Neighbors algorithm with Content-Based Filtering.
  - Built a **responsive Flask web application** with dynamic autocomplete suggestions using HTML, CSS, and JavaScript frontend.
  - Achieved **98% recommendation accuracy** by filtering datasets based on genre, author, and user ratings.
  - Processed and analyzed **10,000+ book records** to deliver personalized recommendations with intuitive user interface.
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## SKILLS

**Programming Languages:** Python, C++, C#, .NET, SQL

**Web Technologies:** React.js, Node.js, Express.js, Flask, HTML, CSS, REST APIs

**Cloud & Data Platforms:** AWS (S3, EC2, Lambda), Azure (Data Factory, Monitor), Snowflake, Databricks

**Databases:** SQL Server, PostgreSQL

**Tools & Frameworks:** Git, GitHub, Docker, JIRA, Postman, VS Code, Linux/Unix

**Data Engineering:** ETL/ELT Pipelines, Data Modeling, Apache Kafka, Snowpipe

**Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, System Design, Agile Development

**Soft Skills:** Problem Solving, Communication, Collaboration, Agile Methodologies, Adaptability, Self-Management, Technical Innovation

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## CERTIFICATIONS

### **Python Essentials Certificate (Cisco)**

- Gained proficiency in designing, developing, debugging, and executing Python 3 programs.
- Mastered algorithmic thinking and Python Standard Library for resolving implementation challenges.

### **AWS DevOps Essentials (AWS)**

- Acquired knowledge of AWS DevOps practices, CI/CD pipelines, and infrastructure automation.
- Understood cloud deployment strategies, monitoring, and configuration management.

### **Snowflake Course (Simplilearn)**

- Mastered Snowflake data warehouse architecture, including Streams, Tasks, and performance optimization.
  - Learned data loading techniques, Snowpipe automation, and cost optimization strategies.
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## **ADDITIONAL EXPERIENCE**

### **Data Structures & Algorithms Practice**

Solved 150+ coding problems on LeetCode covering arrays, strings, trees, graphs, dynamic programming, and algorithms

### **Letter of Appreciation**

Conducted an SQL workshop for ~50 students at Dhanalakshmi Engineering College (Tamil Nadu) in collaboration with Rotaract Club and GDC, improving foundational database skills and hands-on learning.