

# GOWTHAM ALASAKANI

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## PROFILE SYNOPSIS

Data Engineer with mid-level experience designing scalable ETL pipelines and time-series data solutions using Python, SQL, and AWS. Delivered cloud-based ETL automation for industrial sensor data, boosting model accuracy 25% and cutting processing latency 40%. Expertise in data modelling, data quality management, and Agile cross-functional collaboration. Eager to apply data-engineering expertise to drive reliable analytics and operational efficiency for forward-thinking organizations.

## TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, JavaScript, HTML, CSS, C, C++
- **Frameworks & Libraries:** Spring Boot, React.js, Node.js, Express.js, Bootstrap, TensorFlow, OpenCV, NumPy, Pandas
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & DevOps:** AWS (EC2, S3, RDS), Docker, Jenkins, GitHub Actions
- **Data Engineering Tools:** ETL Pipeline Development, Data Modelling, Data Warehousing, Time-Series Data Processing, Data Quality & Validation, Performance Optimization
- **APIs & Integration:** RESTful APIs, GraphQL, JSON, Postman
- **Version Control & Collaboration:** Git, GitHub, Jira, Agile/Scrum
- **Software Development Practices:** Object-Oriented Programming (OOP), Microservices Architecture, SDLC

## NOTEWORTHY HIGHLIGHTS & AWARDS

- Drove 25% improvement in machine learning model accuracy by expanding datasets & applying advanced feature engineering techniques.
- Accelerated data processing by 40% through optimisation of ETL pipelines and algorithmic workflows, improving system efficiency.
- Delivered analytics-ready ETL workflows and dashboards, converting raw datasets into actionable insights supporting business decision-making.
- Improved predictive model accuracy by 8% during a machine learning internship through optimised training strategies and baseline evaluation.
- Awarded Best Presenter (Feb 2023) at an industry workshop on Cloud Computing – AWS, recognised by GITAM University and Brainovision Solutions India Pvt. Ltd.

## CERTIFICATIONS

- **Python for Data Science and AI:** Coursera
- **Introduction to Software Testing:** University of Minnesota - Coursera | Jul 2023 – Oct 2023
- **Technical Support Fundamentals:** Google - Coursera | Aug 2021 – Dec 2021
- **Fundamentals of Network Communication:** University of Colorado System - Coursera Sep 2021 – Dec 2021

## PROFESSIONAL EXPERIENCE

### Millennium Intech Private Limited

Jan 2024 - Dec 2024

#### *Data Engineer*

Chennai

- Engineered scalable ETL pipelines using Python, SQL, and AWS (S3, EC2, RDS), enabling reliable ingestion of high-volume time-series sensor data.
- Modelled and transformed industrial automation data into analytics-ready datasets supporting monitoring, diagnostics, and performance optimisation initiatives.
- Applied statistical analysis and ML techniques (NumPy, Pandas, TensorFlow) to uncover operational patterns, improving system efficiency & reliability outcomes.
- Established data quality, validation, and optimisation standards, ensuring production-grade datasets for dashboards and decision-support platforms.

### InternPe

Jan 2023 - Jul 2023

#### *Software Development Intern*

Bangalore, India

- Developed and tested RESTful APIs and backend logic using Node.js and Express.js, enabling the web application to handle increased traffic and improve overall performance
- Debugged and resolved software defects, improving application reliability and reducing error rates during integration testing cycles.
- Collaborated with cross-functional engineers to implement feature enhancements using Agile methods and quality-assurance practices, resulting in faster release cycles and higher feature stability

### Oasis Infobyte

Apr 2023 - Jun 2023

#### *Web Application Developer - Freelance Assignment*

- Designed and delivered responsive web applications using HTML, CSS, JavaScript, React.js, and Bootstrap, improving usability and functional consistency.

- Integrated RESTful APIs and backend services to enable dynamic data rendering and seamless application workflows.
- Optimised codebase through debugging, cross-browser testing, and version control, enhancing application stability and maintainability.

### Phoenix Global

#### *Data Analyst – Machine Learning*

**Apr 2023 - Jun 2023**

*Hyderabad, India*

- Developed & optimised supervised machine learning models, achieving 8% accuracy improvement over baseline predictive benchmarks.
- Performed exploratory data analysis, feature engineering, and data preprocessing to enhance model reliability and training effectiveness.
- Utilized Python (Pandas, Scikit-learn) and AWS EC2 to train, test, and evaluate models on structured datasets, cutting model iteration time and ensuring consistent performance
- Evaluated model performance using statistical metrics and partnered with teams to translate insights into business recommendations.

### PROJECT UNDERTAKEN

#### **Plant Disease Detection – Machine Learning Project (Python, TensorFlow, OpenCV, Pandas)**

**May 2025 - Jun 2025**

#### *Northwest Missouri State University*

*Maryville, MO*

- Led end-to-end design and deployment of a machine learning solution, improving disease classification accuracy by 25% through dataset expansion and feature engineering.
- Optimised data ingestion and algorithm workflows to reduce processing latency by 40%, deploying the solution across 50+ farms to enable data-driven operational decisions.

### EDUCATION

#### **Northwest Missouri State University**

**Aug 2024 - Dec 2025**

#### *Master of Science (M.S.), Applied Computer Science*

#### **GITAM University**

**Sep 2020 - May 2024**

#### *Bachelor of Technology (B.Tech), Computer Science and Engineering*

### EXTRACURRICULAR

#### **Computer Society of India (CSI), GITAM University**

**Jan 2022 - May 2024**

#### *Core Member*