

Venu Vallepu

Data Engineer | Data Analyst | Data Quality Assurance Engineer | Gen AI Developer

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PROFESSIONAL SUMMARY

Results-driven Data Engineer and Data Quality Assurance Engineer with **3.5+ years** of experience building scalable ETL pipelines, enterprise data warehouse solutions, and AI-powered applications. Deployed at **Wolters Kluwer** (Business Intelligence) via Mygo Consulting as Software QA Analyst - core member of a flagship **SAP ECC to S/4HANA enterprise migration** covering billions of records across Oracle, Snowflake, Informatica, BOBJ, and BODS. Customer-recognised within the first month. **Best Employee of the Year 2025** (ByteXL TechEd). **1st Prize AI Hackathon Winner**. AI-augmented developer leveraging Claude Code, Kiro, GitHub Copilot, ChatGPT, and Gemini to maximise delivery velocity.

TECHNICAL SKILLS

ETL & Data Integration	Informatica PowerCenter, IICS (Informatica Intelligent Cloud Services), IDMC (Informatica Data Management Cloud), BODS (Business Objects Data Services), ETL Pipeline Development, Data Integration, Incremental Load, Workflow Automation
Data Quality & QA	Informatica Data Quality (IDQ), BOBJ (BusinessObjects) Reports, Data Validation, QA Sign-off, Root-Cause Analysis, Data Profiling, Pipeline Testing
Databases & Warehousing	Oracle, SQL Server, Snowflake, PostgreSQL, Oracle Data Store, Oracle Datamarts, Star Schema Design, Dimensional Modeling, Data Mart Development
Cloud & Migration	Azure Data Factory, Databricks, Microsoft Azure, SAP S/4HANA, Cloud Migration
Programming & Scripting	SQL (Advanced), Python, Pandas, NumPy, SQLAlchemy, oracledb, snowflake-connector-python, python-dotenv, openpyxl, pytest, Shell Scripting, Google Apps Script, React, TypeScript, Node.js, PHP
Analytics & Visualisation	Power BI, Advanced Excel, KPI Dashboards, Business Intelligence Reporting
AI Developer Tools	Claude Code, Kiro (AWS AI - Claude-powered), GitHub Copilot, ChatGPT, Gemini, Prompt Engineering, LLM Integration, AI-Assisted Development
Methodology	Agile / Scrum, Data Governance, GDPR Compliance, ETL Testing, Technical Documentation

PROFESSIONAL EXPERIENCE

Data Quality Assurance Engineer

Apr 2026 - Present

Mygo Consulting India Private Limited - Client: Wolters Kluwer ELM Solutions (BI)

Hyderabad, India

- Deployed as **Software QA Analyst** at Wolters Kluwer (Business Intelligence) - performing end-to-end data quality validation across Oracle Databases, Snowflake, Informatica Data Quality (IDQ), BOBJ (BusinessObjects) Reports, and BODS (Business Objects Data Services).
- Core member of the organisation-wide **SAP ECC to S/4HANA migration** - QA validation and sign-off across all downstream BI systems: Oracle Data Store, Oracle Datamarts, Snowflake, IDMC, IICS, Informatica PowerCenter, BOBJ, and BODS, covering **billions of records** of enterprise data.
- Led end-to-end data pipelines validation and **QA sign-off for the WK UK Payroll to Finance rollout** - ensuring data integrity, accuracy, and business alignment before production release.
- Built Python validation frameworks using **oracledb**, **snowflake-connector-python**, **pandas**, **SQLAlchemy**, **pytest**, and **python-dotenv** for secure credential management - automating end-to-end QA checks and generating structured **Excel reports via openpyxl**.
- Accelerated script development via **Kiro** (AWS AI coding tool powered by Claude) to rapidly generate and refine Python test scripts, reducing manual effort and improving test coverage across BI pipelines.
- **Recognised by Wolters Kluwer** within the first month of onboarding for strong technical capabilities, attention to detail, and commitment to quality outcomes.

Data Science Expert & Technical Educator

Sep 2024 - Mar 2026

ByteXL TechEd Pvt. Ltd.

Hyderabad, India

Best Employee of the Year 2025 - ByteXL TechEd

- Designed and delivered industry-focused **Data Engineering and Data Science** training covering ETL pipelines, SQL optimisation, Python, Azure Data Factory, and Snowflake; built hands-on pipeline prototypes to simulate real-world data integration scenarios.
- Architected and delivered the **ByteXL Operations Management App** - a full-stack platform for educator timetable management, attendance tracking, and automated substitute allocation - using an **AI-augmented development workflow** (Claude Code, Gemini); deployed on Render.
- Shipped **ByteXL Mail Merger** (Google Apps Script, one-click bulk email from Google Sheets) and **PodPad (podpad.in)**, a PHP collaborative code-sharing platform - both built end-to-end with AI-assisted development.
- Pioneered an **AI-augmented development methodology** using Claude Code, Gemini, ChatGPT, and GitHub Copilot - delivering production-grade React, TypeScript, Node.js, and PHP applications at high velocity without traditional development bottlenecks.
- Conducted end-to-end **technical recruitment interviews** for Data Science Educator roles - evaluating domain expertise and pedagogy to strengthen the technical faculty team.

Associate Enterprise Software Engineer - ETL Developer

Jun 2023 - Mar 2024

Wolters Kluwer ELM Solutions Pvt. Ltd.

Chennai, India

- Architected and implemented **25+ production ETL workflows** using Informatica PowerCenter, integrating HR and CRM data into centralised data warehouse environments.
- Automated recurring data loads achieving a **99.5% pipeline success rate**, eliminating manual intervention across mission-critical data pipelines.
- Implemented data quality validation routines, root-cause analysis processes, and audit-ready technical documentation (mapping specs, data flow diagrams, process runbooks) to ensure SLA compliance and minimise data downtime.

Associate Enterprise Software Engineer - Data Engineer Trainee

Dec 2022 - May 2023

Wolters Kluwer ELM Solutions Pvt. Ltd.

Chennai, India

- Developed and optimised Informatica PowerCenter mappings processing **millions of records** using incremental load strategies; applied data cleansing, standardisation, and enrichment techniques to improve data quality metrics.
- Reduced average ETL issue resolution time by **30%** through proactive job monitoring and systematic troubleshooting; collaborated in Agile sprints to deliver ETL components supporting reporting and dashboard requirements.

KEY PROJECTS

AI-Powered FIR Filing System - Ananthapur Police | [1st Prize] AI Hackathon

- AI conversational assistant enabling citizens to file FIRs in English, Telugu, and Hindi using OpenAI API (language understanding) and Whisper API (voice input). Features include live location capture, citizen tracking portal, and admin dashboard for officers. Awarded 1st Prize by Ananthapur Police Department.

Technologies: Python, OpenAI API, Whisper API, Generative AI, Full-Stack

Vinay's Kitchen - Restaurant Operations & Inventory Management Platform

- Full-stack SaaS platform tracking daily sales, vendor purchases, material stock, worker attendance, salary payouts, and expenses with analytics dashboards. Live at vinayskitchen.netlify.app. Built end-to-end using Generative AI.

Technologies: React, Vite, Generative AI, Netlify

ByteXL Operations Management App - Internal Enterprise Platform

- Full-stack application for educator timetable management, attendance tracking, and automated substitute allocation. Built AI-augmented, deployed on Render cloud platform.

Technologies: React, TypeScript, Node.js, Vite, Render

EDUCATION

Integrated M.Tech in Software Engineering & Data Analytics

VIT-AP University, Guntur | Graduated 2023 | CGPA: 8.33 / 10

MBA in Business Analytics & Human Resources Management

Amity University Online | 2024 - 2026 | CGPA: 7.42 / 10 (First Division)

CERTIFICATIONS

- Microsoft Azure Fundamentals	<i>Microsoft</i>	- Informatica PowerCenter Developer	<i>Udemy</i>
- Data Analytics Essentials	<i>Cisco</i>	- Data Analyst Certification	<i>Accenture</i>
- Databricks Fundamentals	<i>Databricks</i>	- SQL Certification	<i>HackerRank</i>

AWARDS & RECOGNITION

Best Employee of the Year 2025	ByteXL TechEd Pvt. Ltd. - Recognised for exceptional performance, technical excellence, and leadership across Data Engineering and AI-augmented application development.
1st Prize - AI Hackathon	Awarded by Ananthapur Police Department for developing an AI-powered FIR filing assistant serving citizens in English, Telugu, and Hindi using OpenAI and Whisper APIs.
Customer Appreciation Award	Recognised by Wolters Kluwer within the first month of onboarding at Mygo Consulting for strong technical capabilities and commitment to delivering quality outcomes.