VENU VALLEPU

APPLIED AI ENGINEER | AGENTIC AI | PYTHON AUTOMATION | DATA ENGINEERING

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PROFESSIONAL SUMMARY

Applied AI and automation engineer with nearly 4 years of experience spanning enterprise data engineering, Python automation, AI-agent development and full-stack application delivery. Currently contributing to AI-led engineering initiatives at Wolters Kluwer through Mygo Consulting, including an autonomous test-automation agent, an AI-assisted project-management platform and agentic data-quality monitoring. Experienced in Python-based validation across Oracle and Snowflake environments supporting an SAP ECC to S/4HANA migration. Recognised with 1st Prize at the Ananthapur Police AI Hackathon and Best Employee of the Year 2025 at ByteXL.

TECHNICAL SKILLS

AI & Agentic Systems: Cobra AI, AI Agent Builder, OpenAI API, Whisper API, Gemini API, LLM integration, prompt engineering, AWS Kiro, Claude-powered development

Programming & Automation: Python, Pandas, NumPy, FastAPI, SQLAlchemy, pytest, oracledb, Snowflake Connector, OpenPyXL, REST APIs, Shell scripting

Data Engineering & Quality: ETL pipeline development, source-to-target reconciliation, data validation, Informatica PowerCenter, IICS, IDMC, BOBJ, BODS, Azure Data Factory, Databricks

Databases & Platforms: Oracle, Snowflake, SQL Server, PostgreSQL, Supabase, Microsoft Azure, SAP S/4HANA, Jira REST API integration

Full-Stack & Delivery: React, TypeScript, Node.js, Google Apps Script, Agile/Scrum, data governance, GDPR compliance, technical mentoring

PROFESSIONAL EXPERIENCE

Applied AI Engineer (official HR designation: QA Engineer)

Mygo Consulting India Private Limited | Client: Wolters Kluwer ELM Solutions (BI) | *Hyderabad, India | Apr 2026 – Present*

- Developing an autonomous test-automation agent using Cobra AI and open-source Python to generate, execute and maintain automation suites for enterprise workflows, with the goal of reducing reliance on commercial Tricentis Tosca licensing.
- Engineering an AI-assisted internal project-management platform using React, Node.js and AWS Kiro (Claude-powered), with capabilities for AI-assisted ticket creation, sprint tracking and workflow orchestration as an alternative to Jira.
- Building Data Guard AI, an agentic data-quality monitoring and reconciliation solution for Oracle and Snowflake, covering record-count variances, missing and duplicate records, NULL anomalies, schema inconsistencies and column-level mismatches.
- Developed Python validation frameworks using oracledb, snowflake-connector-python, Pandas, SQLAlchemy, pytest and OpenPyXL to automate thousands of checks across eight downstream BI systems for the SAP ECC to S/4HANA migration.
- Supported UK Payroll-to-Finance rollout QA across Finance and HR data objects; Python automation reduced manual validation effort by 90%, with results captured in structured Excel audit reports.
- Received customer recognition from Wolters Kluwer within the first month for rapid ramp-up and delivery.

SELECTED AI PROJECTS

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

Built a multilingual conversational assistant enabling citizens to submit FIR information in English, Telugu and Hindi using the OpenAI API and Whisper API for speech-to-text. Included live location capture, a citizen tracking portal and an officer admin dashboard. Technologies: Python, OpenAI API, Whisper API, Supabase.

Data Guard AI – Agentic Data Quality Monitoring & Reconciliation

Designed an agentic workflow for Oracle and Snowflake reconciliation, anomaly detection and AI-assisted failure investigation, with Excel audit reporting and Jira REST API integration. Technologies: Python, AI Agent Builder, FastAPI, SQL, Pandas, OpenPyXL, Jira REST API.

Data Science Expert & Technical Educator

ByteXL TechEd Private Limited | *Hyderabad, India | Sep 2024 – Mar 2026*

- Trained 4,500+ learners across 45+ batches in Python, SQL, Informatica ETL, Azure Data Factory and Snowflake.
- Built and deployed the ByteXL Operations Management App using React, Node.js and Supabase; adopted by 500+ educators across India to automate scheduling, attendance and substitute allocation, reducing manual administrative effort by 95%.
- Developed ByteXL Mail Merger using Google Apps Script to automate 3,000+ personalised emails per month for certification-voucher distribution and learner outreach.
- Built PodPad (podpad.in), a collaborative code editor used in live training sessions, using PHP and AI-assisted development workflows.
- Conducted 15+ technical interviews for Data Science Educator roles; awarded Best Employee of the Year 2025.

Associate Enterprise Software Engineer – Data Engineer / ETL Developer

Wolters Kluwer ELM Solutions Pvt. Ltd. | *Chennai, India | Jun 2023 – Mar 2024*

- Developed and maintained production ETL workflows in Informatica PowerCenter, integrating HR and CRM data into centralised enterprise data warehouses.
- Implemented incremental data-load strategies and automated recurring workflows, reducing manual intervention across data pipelines.

Associate Enterprise Software Engineer – Data Engineer Trainee

Wolters Kluwer ELM Solutions Pvt. Ltd. | *Chennai, India | Dec 2022 – May 2023*

- Developed Informatica PowerCenter mappings processing millions of records using incremental-load strategies.
- Supported proactive pipeline monitoring and Agile delivery, contributing to a 30% reduction in ETL issue-resolution time.

EDUCATION

Integrated M.Tech in Software Engineering & Data Analytics | VIT-AP University, Guntur | 2023 | CGPA: 8.33/10

MBA in Business Analytics & Human Resources Management | Amity University Online | 2026 | CGPA: 7.42/10 (First Division)

CERTIFICATIONS

Microsoft Azure Fundamentals • Databricks Fundamentals • Informatica PowerCenter Developer • SQL Certification – HackerRank • Data Analytics Essentials – Cisco • Data Analyst Certification – Accenture