

MADHAV S

AI Automation Engineer | Patent Pending (US 19/360,631) | Python, LangChain, Agentic Systems

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SUMMARY

AI automation engineer with three years at Oracle Health spanning consulting delivery, data migration, and production tooling. Architect of a patent-pending framework using Python, NLP, and LangChain agent orchestration to automate business intelligence report remediation, cutting per-report effort from hours to minutes and contributing to an estimated 30% delivery-speed gain on a \$75M transformation program.

EXPERIENCE

Oracle Health Bengaluru, India

July 2023 – Present

Senior Consultant, Acting AI Automation Lead

July 2026 – Present

- Architect of an AI-powered report remediation framework (patent pending, US 19/360,631) that automates audit, scoping, metadata extraction, analysis, and conversion of SAP BusinessObjects and Tableau reports into Oracle Analytics Cloud. Built in Python with an NLP parsing layer and a ReAct agent harness orchestrated with LangChain and the OpenAI SDK, integrated over MCP.
- Reduced per-report migration effort from 8–16 hours of manual rebuild to 5–10 minutes, automating roughly 80% of migration semantics: calculations, expression filters, canvases, fields, and subject-area mapping derived from source metadata.
- Deployed within a \$75M transformation program, where the framework contributed to an estimated 30% improvement in overall delivery speed. Recognized under Oracle's Zero Limits in Innovation value.
- Developed a GenAI component that translates Tableau formula syntax into Oracle Analytics Cloud SQL, currently in beta.
- Presented the framework to senior leadership across Oracle's analytics and consulting organizations, driving evaluation for broader internal adoption.

Configuration Analyst

July 2023 – June 2026

- Built an Audit Automation Tool that reduced manual audit time from approximately 16 hours to minutes per client; targeted for rollout across 900+ customers.
- Delivered Soarian Document Management production migrations for healthcare clients, using SQL Server BCP to migrate document, owner, encounter, guarantor, and storage records.
- Wrote T-SQL for migration, validation, owner mapping, document type mapping, and post-migration correction; coordinated dry runs, deployment, and go-live verification with DBAs, infrastructure engineers, and client stakeholders.
- Recognition: Innovation Thinker Nomination and Consulting Excellence Award.

Cerner Corporation Bengaluru, India

Jan 2023 – July 2023

Systems Intern

- Supported analysis and testing of healthcare configuration systems; built early automation script prototypes to reduce manual data entry errors.

Micromeasures Metrology Pvt Ltd Chennai, India (Remote)

Feb 2021 – May 2022

Software Programmer, Apprenticeship

- Built Python applications and custom scripts to automate repetitive business processes, data handling, and reporting.

TECHNICAL SKILLS

- AI & GenAI:** LangChain, OpenAI SDK, agent orchestration (ReAct), MCP integration, NLP, prompt engineering
- Languages:** Python, SQL / T-SQL, JavaScript, HTML/CSS
- Cloud & Platforms:** Oracle Cloud Infrastructure (AI Certified), Oracle Analytics Cloud, SAP Business Objects, SQL Server, Tableau
- Data & Delivery:** Pandas, NumPy, data migration, process automation, system architecture, cross-functional delivery

INTELLECTUAL PROPERTY & PUBLICATIONS

- Patent Application (Pending):** AI-Powered Intelligent Report Migration and Visualization. Application No. US 19/360,631.
- Publication:** Novel Skin Disease Prediction Using Computer Vision Algorithms. Springer, Singapore. CNN-based classification of dermatological conditions.

EDUCATION

SRM University Chennai, India

2023

- B.Tech, Computer Science. Specialization in Artificial Intelligence and Machine Learning. GPA: 9.01/10.