

Ramanan R

AI Automation Engineer

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SUMMARY

AI automation engineer with 2+ years at Oracle building production RAG, LLM, agent, and MCP systems for financial-services workflows. Launched a 0-to-1 support-intelligence product adopted by 50+ users, with a linear estimate of approximately 1,400 queries across 650 conversations since June 2025.

SKILLS

AI: RAG, LLM applications, agents, MCP, semantic search, transformers, fine-tuning, tool design

Engineering: Python, FastAPI, REST APIs, Oracle Database, Azure, OCI, Docker, Kubernetes, Jenkins, Playwright, Pytest

EXPERIENCE

Oracle | Associate Software Developer | July 2024 - Present

- Built and launched a 0-to-1, evidence-backed support-intelligence product for financial-services engineering using Python, FastAPI, RAG, MCP, agents, and Oracle data services.
- Reached 50+ users; a linear adoption model since June 2025 estimates approximately 1,400 queries across 650 conversations.
- Recorded 545 MCP data-tool calls in the latest three-week telemetry window; a four-calls-per-query planning model suggests approximately 5,000-6,000 cumulative calls.
- Unified defect summaries, descriptions, comments, metadata, product documentation, and operational knowledge while preserving citations for every investigation.
- Delivered source selection, streaming activity, persistent conversations, evidence panels, feedback collection, and administrative analytics.
- Owned the software development lifecycle across ingestion pipelines, user management, documentation, production delivery, and proactive weekly feature releases.
- Expanded the platform horizontally to additional financial-services products and vertically through product-specific capabilities based on new requirements.
- Supported the Corporate Security and Assurance Process (CSSAP), internal approvals, hosted-AI lifecycle operations, and DevOps delivery.
- Built process-analysis, reusable skill and plugin delivery, and repository-to-wiki automation with evidence validation and controlled updates.

24/7.ai | Research Intern | January 2024 - June 2024

- Completed a 6-month research internship fine-tuning transformer language models for text classification with parallel GPU training and evaluation.
- Evaluated 3 architecture families, RNNs, LSTMs, and transformers, to compare model-training and classification behavior.

PROJECTS

Avenue - Contributed to a React/FastAPI booking marketplace and initiated its OCI-to-Azure migration foundation.

MonthEnd - Strengthened an employee-benefits platform through automated testing, Azure integration, identity work, documentation, and production stabilization.

EduFlux - Developed accreditation automation used for 1 institutional NBA submission, reducing institutional cost by approximately 90%, and expanded it toward NAAC readiness.

Novel Antibiotic Discovery - Designed a GAN-based pipeline to generate candidate compounds for early drug-discovery exploration.

Speech Emotion Detection - Extracted MFCC, LPC, and chroma features and compared four ML models; the repository reports 99.643% Random Forest accuracy.

Nuclei Detection and Classification - Built a deep-learning image-analysis project from the SoftSensor.ai work to detect and classify cell nuclei.

EDUCATION

Amrita School of Engineering | Bachelor of Technology in CSE - Artificial Intelligence | 2020 - 2024 | GPA: 8.99/10 | Google Developer Student Club, GeeksforGeeks Student Chapter, Athletics

St. Joseph's Pre-University College | PCMC: Physics, Chemistry, Mathematics, Computer Science | 2018 - 2020 | 83% | Student Council, NCC

New Horizon Public School | ICSE | 2005 - 2018 | 93%

PUBLICATIONS

- RNA-seq Cancer Classification.** ICCCNT 2022. [DOI](#)
- Big Data Cancer Classification.** CONIT 2023. [DOI](#)
- Cloud-scale Cancer Classification with Databricks.** InCCCS 2024. [DOI](#)
- Kannada FIR Assistance with Whisper and BiLSTM NER.** Springer 2024. [DOI](#)
- GAN + CNN Fake Image Detection.** Procedia Computer Science 2024. [DOI](#)
- Handwriting Recognition with AutoCorrect.** ICCCNT 2024. [DOI](#)
- Traffic Sign Recognition with Transfer Learning.** ICCCNT 2024. [DOI](#)
- Fastrack-StringSearch.** ICCCNT 2024. [DOI](#)