

Alex Christopher G

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EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS | GEN AI ENGINEER

May 2023 – Present | Chennai

- **Built and productionized a RAG-powered Test Report Generator** (FastAPI + embeddings + AWS OpenSearch/Bedrock) that automatically retrieves run metrics, aligns them with historical baselines, and synthesizes insights via LLM prompt orchestration. Delivered complete reports in **PDF/Word/email formats**, shrinking turnaround from **2 hours to 15 minutes** for each performance run.
- **Extended the reporting engine with executive-ready outputs**, including auto-generated trend charts, SLA compliance summaries, and natural-language narratives crafted by LLMs. Adoption by **5+ QA teams** reduced manual reporting workload by **60%**, improved consistency across test cycles, and created a reusable reporting framework for future projects.
- **Architected an AI-assisted Apache JMeter scripting engine** that auto-correlates dynamic parameters and templatises datasets for reuse; reduced average script build time from **3 hours to 30 minutes** (**60%** cut) across **15+** performance services. Enabled QA teams to generate production-ready scripts with minimal manual edits, improving throughput and consistency.
- **Automated correlation, parameterization, and validation pipelines** by combining rule-based extractors with LLM verification. This eliminated repetitive trial-and-error debugging.
- **Built an AI-driven Accessibility Remediation Engine** using **Playwright** and **axe-dev tools** to automatically audit webpages, detect WCAG compliance issues, and generate production-ready remediation code via LLMs. Ensured fixes preserved existing UI structure and adhered to organization-approved color standards, enabling faster accessibility compliance across web applications.

PERSONAL PROJECTS

FRAMEWORK DEVELOPMENT | DEVELOPER

Jan 2025 – Present | Chennai

- Designed and deployed a lightweight multi-agent framework where AI agents collaborate to plan, generate, and validate tasks with minimal human input.
- Leveraged open-source LLMs to enhance security and reliability, reducing dependence on external APIs.

AUTOMATED MACHINE LEARNING MODEL GENERATION

| OPEN SOURCE CONTRIBUTOR

Jan 2023 – Apr 2023 | Chennai

- Built an open-source Python package that automates the full ML workflow – from data preprocessing through training, testing, and hyperparameter tuning.
- Enabled users to feed raw datasets and auto-produce deployable models with minimal setup, cutting prep time from hours to minutes.
- Packaged with detailed documentation and unit tests to ensure reliability and ease of integration for internal use.

EDUCATION

SRM UNIVERSITY

MASTER OF APPLIED DATA SCIENCE

2021-2023

CGPA: 8.7 / 10.0

MADRAS CHRISTIAN COLLEGE

BACHELOR OF COMPUTER

APPLICATIONS

2018-2021

CGPA: 7.0 / 10.0

CERTIFICATION

Microsoft Azure AI Engineer Associate (AI-102)

COURSEWORK

JOB EXPERIENCE

- Pytorch • Tensorflow • Flask
- Streamlit • Open AI • Llama • Langchain • Machine Learning
- Natural Language Processing • Git

POST GRADUATE

Data Visualization • Machine Learning / Deep Learning • Object Oriented Programming • Artificial Intelligence

SKILLS

LANGUAGES

- Python • HTML • CSS • Javascript

TOOLS AND TECHNOLOGY

- Numpy • Pandas • Plotly
- Transformers • Pytorch • Vector DB
- Open AI • Llama • LLMs • HuggingFace
- FastAPI • RAG • Streamlit
- Embedding models • LangChain
- LangGraph • LangSmith • Pydantic
- CrewAI • Ollama • AgenticAI • CI/CD

CLOUD SERVICES

- Azure • AWS

VECTOR DATABASE

- ChromaDB • FAISS • OpenSearch

ACHIEVEMENTS

GENERAL SECRETARY

BCA Department