Udaya Nagavenkata Kranthi Bhargav Amara

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Certifications : Udaya Nagavenkata Kranthi Bhargav Amara - Skills... - Credly

Professional Summary:

GenAI-focused Software Engineer experienced in fine-tuning large language models and creating smart prompts. Built helpful chatbot apps using Cursor.AI, OpenAI APIs, and FastAPI. Automated finding and fixing bugs with NLP methods. Created easy-to-use GenAI workflows for extracting information from invoices using Azure Form Recognizer. Skilled at connecting GenAI tools with secure and fast databases like SQL and NoSQL. Used prompt engineering techniques and AI tools to save 80% of time and human effort in automating tasks and improving workflows.

Skills:

Programming: Python, SQL
Databases: MongoDB, Microsoft SQL Server, MySQL
Cloud Platforms: Azure, Google Cloud Platform (GCP)
Visualization Tools: Excel Charts, Jupyter Notebook
Development Tools: VS Code, PyCharm, Anaconda, WinSCP, PuTTY
DevOps & Management: JIRA
Operating Systems: Linux, Ubuntu

Work Experience

DXC Technology September 2021 – Present

Analyst II - Software Engineer (Research and Development) [November 2023 – Present]

- Designed and implemented a **multi-agentic GenAI framework** using **LangGraph** and **LangStudio**, enabling full pipeline automation — from **cloning repositories to build, test, SonarQube scan, and conditional deployment** based on data-driven quality metrics.
- Built secure and scalable **FastAPI** backend services integrated with a **React frontend**, supporting real-time LLM interactions via REST APIs using **Autogen** and the **MCP (Model Context Protocol) framework**.
- Led a GenAI-powered **legacy code transformation project**, converting Java Struts to Spring Boot using **Cursor HyperCoder** and **Cline**, reducing manual effort and migration time by over **80%**, while ensuring business logic consistency through structured prompt engineering.
- Leveraged **Lovable**, **Windsurf**, and **Cursor.AI** to rapidly **build and deploy data-aware GenAI applications**, achieving end-to-end automation with **up to 80% reduction in human intervention** across the development lifecycle.

GenAI Developer – Ahold Delhaize (DXC), *May 2022 – September 2023*

- Designed and deployed a hybrid NLP system combining regular expressions, BERT embeddings with logistic regression, and Large Language Models (Claude Sonnet 3.7 max) to identify and

classify complex text patterns from unstructured data.
- Utilized regex for deterministic pattern detection, BERT + logistic regression for learnable patterns with labeled examples, and LLMs for handling context-heavy or rare patterns with minimal training data.
- Implemented a synthetic data generator to augment limited datasets and clustered similar examples to improve model generalization and performance.
- Developed a modular FastAPI backend with endpoints for prediction and model switching, enabling real-time access to the pattern recognition engine.
- Integrated the solution into business pipelines to automate QA logs, contract analysis, and customer text mining workflows.
- Achieved over 90% accuracy on known patterns and reduced human intervention by 75%, significantly improving operational efficiency.
- Tools & Tech: Python, HuggingFace Transformers, Scikit-learn, Regex, FastAPI, VsCode

Analyst I - Software Engineer

Azure Cognitive Services – Invoice Extraction at DXC Technology, October 2021
Built and deployed GenAI models using Azure Form Recognizer to extract structured financial data (tables, totals, vendor info) from semi-structured invoices. Trained the model for high accuracy and precision, with real-time editing capabilities for correcting OCR data. Integrated the solution with SQL Server for seamless database updates and used Streamlit UI for business validation, streamlining financial data processing, and enhancing decision-making with AI-driven insights.

Training and Enablement Initiatives

- Applied project management and communication skills from MBA to **plan and execute large-scale training programs** for 100+ new joiners across CursorAI, GenAI, and RAG technologies.
- Leveraged business knowledge to **bridge technical concepts with business goals**, helping non-technical teams understand the ROI of AI adoption.
- Used time and resource optimization techniques learned in MBA to **automate training reminders**, track progress, and reduce onboarding timelines by 30%.
- Facilitated cross-team collaboration by conducting **stakeholder-aligned learning sessions**, improving internal knowledge transfer across engineering, product, and QA teams.

Education
Master of Business Administration (MBA) – Data Science and Analytics
Manipal University Jaipur, Rajasthan
August 2022 – March 2024
CGPA: 8.4/10

Bachelor of Technology (B.Tech) – Electrical and Electronics Engineering
QIS College of Engineering and Technology, Ongole, Andhra Pradesh
June 2017 – August 2021
CGPA: 8.5/10

Certifications

- **Azure AI Engineer Associate (AI-102)**
- **Microsoft Azure Fundamentals (AZ-900)**
- **Microsoft AI Fundamentals (AI-900)**
- **PCEP – Certified Entry-Level Python Programmer**
- **Microsoft Power Platform Fundamentals (PL-900)**
- **Microsoft Data Fundamentals (DP-900)**
- **AWS Certified Cloud Practitioner**
- **Oracle Certified GenAI Professional**