Pramod DM

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CAREER PROFILE:

Passionate and results-driven Python-GenAI Developer with almost 6 Years of experience in Python, GenAI, Machine Learning, Deep Learning, and modern software development practices. Driven to build and lead impactful projects, delivering meaningful results through the AI and Data Science field.

- Built end to end Extraction strategy for a GenAI application using **Docling** Framework improving Accuracy, Speed, and reducing multiple dependencies on other libraries.
- Designed and implemented the complete pipeline for extraction of text, tables and metadata from RTF, DOCX, and PDF files using **Docling f/w** & integrating **vision models** like (PaddleOCR, Tesseract etc) with Amazon Bedrock LLMs, from POC (R&D) to implementation, streamlining data extraction and target ingestion, for Life Sciences GenAI application.
- Responsible in delivering new features and solving prod issues related to Python-GenAI Application, addressing text extraction, table population, font issues through robust Python logics and NLP techniques and deploy code fixes through **Kubeflow** pipelines.
- Built and optimized a custom **RAG pipeline** using **Lang-Chain**, incorporating advance chunking strategies (recursive, semantic, agentic and document-specific) for efficient context management. Implemented retrieval optimization and evaluated performance using **RAGAS** to ensure high accuracy and relevance across diverse query sets.
- Developed **agentic AI** solutions using **Langgraph** and **CrewAI**, designing autonomous multi-agent workflows and applying design patterns to improve process efficiency and decision-making process for Life Science EDM application. Proficient in building solutions using Langgraph, CrewAI and MCP.
- Utilized **AWS GenAI (Bedrock, Textract, OpenSearch)** to automate extraction and generate concise summaries from complex medical reports.
- Utilized advanced LLM's (**BioGPT, MedAlpaca, Chat Doctor**) for biomedical text analysis for a Medical Life Sciences POC, and applied **BERT**, **Google Translate** and **Hugging Face Models** for text classification multilingual data processing in a Oil and Gas Manufacturing Domain Project.
- Used **NLP techniques** and Deep learning architectures to enhance project features and solutions, improving extraction efficiency in the application.
- Developed customized AI agents using **Microsoft Copilot Studio**, integrating seamlessly with **Power Platform, Dynamics 365, and Azure AI** to enhance automation and business intelligence capabilities.
- Expert in all key ML and Deep Learning algorithms, with practical implementation experience of each and every algo using **Scikit-learn, Tensorflow** and **Keras**.
- Modularized Python OR Repos built using **PuLp, Pyomo and Gurobi** Libs to obtain faster outputs using advanced Python OOPs approach for obtaining Optimal Cost Solutions.
- Very good **communication** and experience in collaborating with cross functional teams for resolving any dependencies.

TECHNICAL SKILLS:

- **Programming Language**   : Python
- **Frameworks**   : Docling, LangChain, LangGraph, CrewAI, MCP
- **ML-DL & NLP**   : NLP Techniques, ML Algorithms & DL Architectures
- **AI & LLM's**   : CoPilotStudio, AWS Bedrock, HuggingFace Hub
- **Data & Cloud Platforms**   : Databricks Advance, Azure and AWS
- **Database Management**   : PostgreSQL, Chroma DB.
- **Version Control & CI/CD**   : GitHub, Azure DevOps

WORK EXPERIENCE:

3) CONSULTANT, **Deloitte US, Bengaluru**
4th December 2023 – Present

Technologies – Python, Docling, LangChain, Langgraph, MCP, CrewAI, NLP, AWS Bedrock, GitHub.
Tools : PostgreSQL(pgvector), VScode, Kubeflow, AWS, pdfPlumber, pypdf,

2) DATA ENGINEER, **LTI-Mindtree, Bengaluru**
30th July 2021 –29th September 2023, **CITI Bank - ASW**

Technologies – Spark (Core, SQL, Streaming), Python, AWS, Couchbase DB, Jenkins, Linux, Databricks ML Platform.
Tools: Bit-Bucket, Anaconda, Databricks Cloud Platform, Jupyter Notebook, Confluence, Jira.

1) SOFTWARE ENGINEER, **Wipro Ltd, Bengaluru**
26th November 2018 -- 7th April 2020, **Ericsson – PMIC**

PROJECTS:
1. **Multi-Agent RAG Solution for Enterprise Document Management**: Help enterprise employees retrieve, summarize, and validate information from a large and diverse internal document repository.
2. **GenAI - Cold Email Generator**: Cold email Generation for providing Software Services based on Client.
3. **Supply Chain Optimization**: Created a LP Model for with right Data Feeding strategy for efficient functioning of retail products using Python, Pyvis, PuLp libraries.
4. **Customer Churn Prediction**: Predicting Customer Churn using Gradient Boosting & ANN Models.

CERTIFICATIONS:
1. Microsoft Certified Azure Data Scientist Associate.
2. Deloitte Certified Agentic AI Specialist.
3. Deloitte Certified GenAI Developer Associate.
4. Advanced Prompt Engineer Badged.
5. Deloitte certfd "Microsoft CoPilot Studio".

EDUCATION DETAILS:

YEAR OF PASSING	QUALIFICATION	INSTITUTION
2018	Bachelor of Engineering	CMR Institute of Technology - VTU Bangalore
2014	12th	St. Joseph's Pre-University College Bangalore
2012	10th	Citizens High School Bangalore

I, **Pramod.D.M** here by confirm that the information given above is true to the best of my knowledge.
Date: 22/01/2026   **Place**: Bengaluru