AYUSHI YADAV

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Experience

Tiger Analytics **Chennai, Tamil Nadu**

Senior Analyst: Data Science *March 2024 -*

- Improved **GPT-4.5** prompts for healthcare use cases (e.g., patient query assistance, medical report summarization) using **Prompt Engineering** techniques, **DSPy** and **TextGrad**, leading to more accurate and consistent responses on benchmark healthcare datasets.
- Designed and tested Generative AI workflows with **LangChain**, **LLaMA** and **Retrieval-Augmented Generation (RAG)** for tasks like clinical note summarization, medical record search, and Q&A on drug guidelines, ensuring safer and more reliable outputs.
- Built notebooks covering multiple use cases and deployed **GenAI/ML** solutions on **AWS SageMaker**, **S3**, and **Databricks Model Serving**, enabling real-time and batch applications such as patient FAQs and discharge summary generation. Used **DeepEval**, **RAGAS** for model validation and quality checks.
- Added model monitoring features in the **Tiger MLCore** platform, using methods like **Jensen–Shannon** Distance, **PSI**, and **CSI** to track data drift in patient and clinical datasets.
- Worked with the API team to create monitoring dashboards with **Python FastAPI**, **PostgreSQL**, and **Postman**, making model insights accessible to stakeholders.
- Helped train and mentor interns and analysts in **Python**, ML basics and **Generative AI** workflows.

Education

Pranveer Singh Institute of Technology, Kanpur **CGPA: 8.19**

Bachelor of Technology in Computer Science and Engineering *August 2019 – July 2023*

Projects

BLOCKCHAIN Based EHR System | *Solidity, Hardhat, Node.js, React.js.* **Project Link**

- This project leverages a hyper ledger fabric network maintained by the hospital to store an Electronic Health Record of the patient securely.
- The medical record of any patient cannot be accessed without his/her consent.

Breast Cancer Detection Using Machine Learning | *Python, Pandas, Matplotlib, Scikit-Learn* **Project Link**

- Classifies Tumor as Cancerous or Non- Cancerous by studying attributes like tumor type, size, etc.
- Used Scikit- Learn, Matplotlib and Pandas to build the kernel.
- **SVM Classifier** is used for Classification and accuracy of **98%** is achieved.

Technical Skills

Languages: Python, C++, JavaScript, SQL, Spark
Developer Tools: VS Code, Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, PostgreSQL
Technologies/Frameworks: Langchain, RAGAS, DSPy, Flask, FastAPI, Node.js, DataBricks, Azure Cloud, AWS, GitHub
Technical Domains : Data Structures and Algorithms, GenAI, Machine Learning, Neural Networks, DBMS, Computer Networks, LLM, Operating System
Certifications:

- Neural Networks and Deep Learning — Coursera — **Score 97.20** — Link
- Tiger Analytics Machine learning Engineering Program — Link

Achievements / Profiles

- Secured **113 rank** out of **75000** participants in **TechGIG Geek Goddess 2022** organized by American Express.
- Secured **2195 Global Rank** in Google HashCode 2022.
- **Leetcode:** ***Ayushi_Yadav20***
- **GeeksForGeeks:** ***ayushiyadav20***
- **TechGIG:** ***Ayushiyadav20***