

PROFILE

AAKASH YADAV

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 Mumbai

SUMMARY

Dedicated and innovative AI Engineer with around 3 years of experience and a strong background in machine learning and deep learning techniques. Saved 40% of valuable time by automating manual efforts by using Generative AI and Machine learning models Also have expertise in handling clients in agile projects without handholding.

SKILLS

Data Science: Pandas, NumPy, Data Visualization (Matplotlib, Seaborn), Statistical Analysis
Natural Language Processing (NLP): NLTK, SpaCy, Text Analysis, Sentiment Analysis, LLM, Langchain, Huggingface, Gen AI, Prompt Engineering, Chat-GPT.
Programming Languages: Python
Cloud Platforms: AWS (Sagemaker, Textract, Kendra, Lambda , Glue), Azure(OpenAI, Cognitive services, LUIS portal)
Machine Learning & Deep Learning: PyTorch, Scikit-learn
Web-Framework: Flask
Model Deployment: Serverless Architecture, Docker
Version Control & Collaboration Tools: Git, Jira
AutoML Data Science Platform: Dataiku

EXPERIENCE

AI & ML Engineer
May 2021 – Present
Company Name-i2e Consulting

- Saved more than **50 % of Clinical Research Pharmacist(CRP)** time by creating a Chatbot based on **Retrieval Augmented Generation (RAG) technology** which can answer study team questions from unstructured IP Manuals.
- 30% increase in protocol design success rate by the binary classification model on historical data which will help identify the protocol that will have a Significant quality Event(SQE) in the future.
- Also created a Dash Dashboard to **visualize the pattern** in SQE historical data.
- **Coordinating with stakeholders** to understand and refine business requirements and get the right data.
- Created an **ML-powered alert system** that can help clinical sites to plan clinical trials according to the critical events happening all over the world so that it doesn't affect the clinical trials.
- **Saved 40% of business time** by automating the manual efforts to generate the Gantt chart using Selenium and UI path.
- **Detect 50% of fraud calls in real-time** by using Azure speech-to-text functionality and Azure LUIS (Natural language understanding) model.
- Helped users with the related new article for supporting their future predictions on global events which can affect the drug development lifecycle by training the **FastText Large language model (LLM)** on domain data and creating a Recommendation system.
- Also got an opportunity to learn basic Data Collection (connecting the endpoint and collecting the data using Python and swagger API) and Data Preprocessing using **Tokenization, Lowercasing, stopwords removal, Stemming, and Lemmatization.**

ADDITIONAL RESPONSIBILITY

- Mentored and guided junior developers by conducting weekly code reviews, providing constructive feedback, and offering tailored learning resources.
- Involve in various Pre-sale activities and POC delivery.

EDUCATION

- Master of Science in Data Science and Artificial Intelligence | Mumbai University
- Bachelor of Mathematics| Mumbai University

AWARDS

- Employee of the Month -July 2021
- Employee of the Month -Nov 2022

IMPORTANT LINKS

- [GITHUB](#)
- [LINKEDIN](#)

SOFT SKILLS

- Problem-Solving: Complex AI-related Problem Resolution
- Analytical Thinking: Data Interpretation, Decision Making
- Communication Skills: Technical Concepts for Non-Technical Audiences
- Teamwork & Collaboration: Interdisciplinary Team Projects