

Abhishek Bairagi Data Scientist

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Professional Experience

Senior Associate Data Scientist L1, Publicis Sapient

08/2021 – present

- **RFP-AI** - Developed a Gen AI-powered platform, that is designed to streamline the RFPs(Request for Proposal) response process for client partners and business development teams. This innovative solution integrates traditional NLP applications, large language models, a knowledge management system, and robust user management, achieving a 40% time saving and a 2X increase in response rates through effective automation.
- **Speech-enabled Scalp Therapist Chatbot:** Developed an interactive voice-enabled Scalp and hair therapist chatbot powered by Generative AI technology for a leading Retail Client with speech capabilities, empowering customers to evaluate their scalp & hair condition and receive personalized tips and recommendations utilizing Azure bot framework, langchain, Elasticsearch and Azure OpenAI capabilities.
- **GenAI-Driven Chatbots:** Engineered cutting-edge Gen-AI Chatbots tailored for clients from diverse industries such as Finance, Retail, Medical, and Transport. These chatbots cover use-cases like product/content recommendation, information search, and insight summarization. Leveraging chatbot frameworks, large language models, langchain, llamaindex, and extensive guardrails, they've garnered acclaim from SMEs for their exceptional performance.
- **Semantic Product Search:** Achieved significant improvements in search relevance by implementing a highly effective semantic product search solution for the fashion and electronics industries combined with learn-to-rank technology. Leveraged Elasticsearch and advanced product-attribute detection techniques to optimize search results and enhance the overall user experience.
- **KaaS Brandwatch:** Led the development of KaaS Brandwatch, an advanced NLP platform, enabling businesses to analyze brand perception in the market utilizing sentiment analysis, summarization, and entity recognition through customer reviews and news articles.

Education

B. Tech in Electrical Engineering, Indian Institute of Technology Hyderabad

07/2017 – 04/2021

Skills

Generative AI

Langchain, RAG, Conversational Chatbots, LLMs, Fine tuning LLM

Libraries

Transformers, Sklearn, Spacy, Regex, Pandas

Cloud Services

AWS, Azure

Chatbot Frameworks

Kore.ai, RASA, Azure Bot Framework

Traditional NLP

Information and Product Search, Learn to Rank, Sentiment Analysis, Entity Recognition

Databases

ElasticSearch, PostgreSQL, Vector Databases

Tools and Frameworks

Langchain, Llama Index, FastAPI

Programming

Python, C++

Certificates

- DP-100: Microsoft Certified Azure Data Scientist
- AZ 900: Microsoft Certified Azure Fundamentals

Publications

A Cross-Platform HD Dataset and a Two-Step Framework for Robust Aerial Image Matching, IEEE

20/06/2022

Awards

Learning Mindset Award, Publicis Sapient AI & Data COE

2023

Silver Medal - Inter-IIT Tech Meet

2019