Data Science|Generative AI|Business Analysis|Leadership

**Shubham Ringne**

**Phone:** +91-9712518788

**Email:** shubhamringne@gmail.com

**LinkedIn:** linkedin.com/in/shubham-ringne

**Professional Summary**

Experienced AI Specialist with a strong background in predictive modeling, machine learning, and generative AI. Proficient in designing, developing, and deploying advanced AI solutions that drive innovation and business transformation. Demonstrated ability to lead cross-functional teams, manage complex AI projects, and communicate effectively with stakeholders to deliver impactful, data-driven strategies. Expertise in leveraging cutting-edge AI technologies, including agentic AI and autonomous systems, to extract actionable insights from diverse data sources and implement prescriptive strategies for project success. Having a total work experience of 9+ years.

**Skills and Competencies**

|  |  |
| --- | --- |
| * Predictive & Prescriptive Modelling * Machine Learning * Generative AI * Agent Frameworks * Leadership * Prompt Engineering | * Data Engineering * Computer Vision OCR * Text Analytics- NLP * Project Management * BI & Reporting * MCP |

Experience

**Systems Integration Senior Specialist (Lead Data Scientist)** - 07/2021 to Present

**NTT DATA Information Processing Services Pvt. Ltd.**, India (Remote)

* Architected and implemented Retrieval-Augmented Generation (RAG) and Agentic AI systems
* Designed and led development of agentic AI frameworks, enabling autonomous decision-making capabilities in AI agents and improving operational efficiency.
* Collaborated closely with cross-functional teams, including product managers, data scientists, and engineers, to translate business requirements into scalable AI solutions.
* Led multiple projects as the Directly Responsible Individual, streamlining processes, managing client interactions, team dynamics, and ensuring timely project delivery.

**Sr. Business Analyst – BPS (Senior Data Scientist)** - 09/2019 to 07/2021

**Tech Mahindra Ltd.**, Hyderabad

* Led the development and implementation of BI and analytical models, collaborating closely with software developers and machine learning engineers. Ensured timely governance, resulting in actionable business improvements.
* Evaluated business processes and requirements, identifying areas for improvement and implementing data-driven solutions. Facilitated workshops and presentations to communicate findings and recommendations to business stakeholders, driving strategic decision-making and process optimization.

**Technical Skills**

|  |  |
| --- | --- |
| * Python & R * SciKitLearn * Azure ML, AWS, GCP * Open source LLM * RDBMS & NoSQL | * Graph RAG * MLOps * Py Spark * Model Deployment * Docker |

**Industries:**

|  |  |
| --- | --- |
| * Telecom * Manufacturing * BFSI | * Infrastructure & Construction * E-commerce |

**Education:**

B. Tech Computer Engineering

**National Institute of Technology, Surat**

07/2012 - 06/2016

Masters (M.S.), Data Science

**Liverpool John Moores University, UK**

06/2019 – 06/2021 (Instructor Led)

**Data Scientist** - 06/2016 to 09/2019

**Quadratic Insights Pvt. Ltd.**, Hyderabad

* Framed analytics solutions for clients’ problems, directly engaging with clients to present insights and identify improvement areas, and designed multiple corporate trainings to enhance employee efficiency in data analytics.
* Managed data-preparation involving the pre-processing, cleansing, and integrity verification of data used for analysis.

Professional Projects

**MCP- Multi-Agent Orchestration System for Retail Enhancement**

* Developed a robust multi-agent system framework to enhance the shopping experience for users.
* Utilized MCP and A2A protocols to efficiently coordinate communication between agents and tools.
* Implemented Litellm proxy server as a load balancer, optimizing LLM calls across models including Claude and Azure OpenAI GPT.
* Integrated advanced architectural components such as memory, state, and session management to improve system functionality.
* Enhanced system tracing and observability by leveraging Langfuse, which was also utilized for effective prompt management.

**Agentic AI- SmartAgent solution Hub**

* Leading the development of a PaaS system to automate the creation of agent-based AI projects, reducing implementation time from a month to under a week. Successfully led a team of 5 in the design and implementation, resulting in an 80% reduction in project setup time.
* Architected the PAS to support user-friendly interfaces for designing and managing agentic AI solutions.
* Implemented features for users to create AI agents, define tasks, and set up workflows tailored to specific use cases.
* Developed algorithms to automatically generate efficient, scalable code and resources for agent-based projects.
* Integrated multiple agent frameworks to offer flexibility in deploying various AI agents.
* Successfully reduced project setup and implementation time by over 80%, with positive feedback for significantly enhancing productivity.

**GenAI Medical Record Research Assistant**

* Build end to end pipeline for the RAG application to process a leading US Insurance Companies document( which include Patient’s Visit records, discharge summary) and enabling a chat bot like UI to answer specific health claim-related questions, enhancing operational efficiency and client satisfaction.
* Led the Development a multi modal GenAI assistant that allows adjustors interact with medical documents to glean key information needed to recommend claim for approval.

**Agentic AI- Automotive Insurance Agent**

* Developed an multi agent autonomous automotive insurance agent framework to decide on claim approvals based on claim details, damage photos, and policy specifics, using a multi-agent framework in CrewAI and Autogen.
* Integrated Azure computer vision API to analyze vehicle damage photos, estimating damage and validating claims
* Coordinated interactions between damage assessment, policy evaluation, and decision-making agents, incorporating reinforcement learning for improved accuracy.

**Gen AI for Smart Manufacturing**

* Created data migration pipeline integrating a delta lake medallion architecture for data storage and pre-processing for analytical use cases. Worked on Generative AI Predictive maintenance and Anomaly detection use case in Manufacturing. Extracted actionable insights from IOT sensors data by leveraging Azure databricks for data transformation and preprocessing and report generation through PowerBI.

Professional Projects

**Intelligent ITSM- Automating ITSM with ML**

* Built and deployed multiple Machine learning use-cases involving ITSM datasets such as Ticket Categorization, Volume Prediction, Ticket Summarization, Extracting relevant keywords from an incident based on the ticket type. Deployed the solution using Databricks as scheduled jobs as per the requirements.

**B2C Recommendation Engine – Ecommerce**

* Provided an efficient product recommendation solution on a scalable platform for an E-Commerce giant, based on click stream and product catalogue data consisting over 10 million products.

**NLP- Email** **classification and tagging for a banking company**

* Preprocessing and classification of customer emails into respective categories depending upon the content in the mail and automatically redirect the complaints received to the concerned departments.
* Used NTLK and DTM libraries to preprocess emails and extract the most relevant words. Developed a Naive Bayes Classifier which tags those emails with the appropriate company department.  
  Also built a descriptive Power BI dashboard on complaints received per department and the resolution stats.

**Product Recommendation Engine(B2B)**

* Using Random Forest Classifier, built a product recommendation solution for one of the biggest retail manufacturers in India. By using the product catalogue and the invoice transactional history, for a given store on a given date or within a timeline, predicted recommendations of Items and their quantity that should be purchased from the distributor/warehouse.

**Road Route Optimization - Sales Force Automation**

* Built a Route Optimization Scalable Application for a Retail Distributor giant for better management of routes, sales man to minimize the distance travelled and maximize the sales. The optimization model reduced the average number of the delivery person required per store by 28%.

**Interaction Analytics for multiple Telecom Giants**

* Identify trends from chat/ IM conversations to enable topic and intent classification and understand sentiment categorized by keywords, topics, and tags.
* Built exhaustive Power BI dashboard to showcase NPS analysis on the survey dataset, to determine the key promotors and detractors, targeting individuals to improve their service, finding various insights based on products and services to educate the low performing service agents.
* Building a model with various attributes like customer behavior, AHT, Issue Type, Region, skillset, frequency of occurrence, customer age group etc., to predict the repeat calls, which in turn improves the overall customer experience.

Thesis & Certifications

**Thesis**:   
A ML Approach on Medical Drug Recommendation- Analyzing Patient Reviews and Sentiment on Drugs.

**Certification:**Structuring Machine Learning Projects, DeepLearning.AI (Credential ID : [K6JGTBUS3NKH](https://www.coursera.org/account/accomplishments/verify/K6JGTBUS3NKH))  
Generative AI with Large Language Models, Coursera  
Multi AI Agent Systems with crewAI , DeepLearning.AI