

Karthikeyan R

Data Scientist

Data Scientist possessing 4 years of experience in the fields of healthcare, banking, and retail analytics. Proficient in developing scalable machine learning solutions, automating workflows, and extracting actionable business insights. Capable of aligning technical and strategic goals to achieve measurable outcomes. Enthusiastic about utilizing artificial intelligence and advanced analytics to foster data-driven innovation.

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WORK EXPERIENCE

Data Analyst

Mu-Sigma Business Solutions Pvt Ltd.

03/2022 - Present

Bangalore, India

PROJECTS

Pharmaceutical Medical Activity Monitoring & Automation Platform

- Developed a global medical launch monitoring platform powered by AI for a Fortune 500 pharmaceutical client, facilitating real-time tracking across various therapeutic indications
- Streamlined workflows through the use of Domino Scheduler and Python, resulting in a 40% increase in operational efficiency and a 60% reduction in manual effort
- Incorporated predictive models to anticipate activity delays and resource utilization, thereby improving launch success rates by 20%
- Linked data pipelines to SharePoint using Power Automate, enhancing data accessibility and synchronization by 50%
- Created an interactive Tableau dashboard that incorporates outputs from machine learning models to track all product activities and statuses across various regions and countries, facilitating real-time, data-informed decision-making

Data Governance & Quality Initiative with Microsoft Purview

- Developed and implemented an AI-driven data governance framework utilizing Microsoft Purview to guarantee data integrity throughout the enterprise in the banking and logistics sectors
- Automated the detection of anomalies and the scoring of data quality through machine learning pipelines in Azure Databricks, enhancing accuracy by 35% and cutting validation time by 50%
- Collaborated with compliance teams to ensure adherence to GDPR and Basel III regulations, thereby reducing regulatory risks while standardizing metadata across five business units

AI Knowledge Assistant for Enterprise Insights

- Created an internal knowledge assistant powered by a large language model (LLM) utilizing the OpenAI API, LangChain, and Azure Cognitive Search to derive contextual insights from both structured and unstructured enterprise data
- Refined a GPT-based model to accommodate domain-specific terminology, allowing teams to access insights related to compliance, sales, and medical launches in natural language
- Achieved a 70% reduction in query response time and enhanced the efficiency of internal decision support across various business functions

EDUCATION

B.E Electrical and Electronics Engineering
Sri Sairam Engineering College

06/2018 - 04/2022

CGPA: 8.9

CORE COMPETENCIES

Programming & Tools

Python, SQL, R, SAS, Spark, Azure Databricks, TensorFlow, PyTorch, Scikit-learn, Power BI, Tableau, Domino Scheduler, Power Automate

Machine Learning & AI

Predictive Modeling, Natural Language Processing, Deep Learning, Feature Engineering, Model Deployment, A/B Testing, Time Series Forecasting

Data Science & Cloud Platforms

Azure Machine Learning, Databricks, Microsoft Purview, Azure Data Factory, Microsoft Power Platform

Data Management & Governance

Data Pipelines, Metadata Management, Data Quality Frameworks, MLOps, and Data Governance

Business Impact Areas

KPI Enhancement, Product Analysis, Healthcare Perspectives, Risk Assessment, Market Planning

Soft Skills

Problem Solving, Cross-Functional Collaboration, Business Storytelling, Problem-Solving, Project Leadership

CERTIFICATES & ACHIEVEMENTS

Python & SQL Programming – SkillRack

Data Science & Machine Learning – Coursera

Adobe UX Design – NASSCOM FutureSkills

Azure Data Fundamentals - Databricks

Data Science Practitioner - Domino

3x Spot Award - Mu Sigma Business Solutions

Top 5 Winner - All India Essay Contest, DAE, India

LANGUAGES

Tamil

Native or Bilingual Proficiency

English

Professional Working Proficiency

INTERESTS

Space Exploration

Cricket

Finance

Artificial Intelligence

Creative Arts