Samith Abesinghe

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PROFILE

Data Science & AI passionate, seeking to apply software development and strong analytical skills to solve complex problems leveraging AI and data-driven decision making.

EDUCATION

- BSc. Physical Science, University of Kelaniya - *CGPA – 3.6* — **2021 Reading**
  Statistics, Computer Science & Mathematics
- GCE A/L - Maliyadeva College, Kurunegala — **2016 - 2019**

PROFESSIONAL CERTIFICATIONS

- Python for Data Science, AI & Development – IBM
- Data Science Methodology – IBM
- Tools for Data Science – IBM
- What is Data Science? – IBM
- Microsoft Power BI Data Analyst Professional Certificate, Cont.
- Machine Learning Engineering for Production (MLOps)

PROJECTS

Customer Service AI Assistant | END to END   April 2024 – Jun 2024
- Chat assistant is working as an AI customer care agent. Users can get product recommendations according to user needs based on category, gender, price, descriptions with product names & it's availability.
  Python, NumPy, Pandas, Pydantic, Faiss-Index, SpaCy, GroQ, Streamlit, LRU_Caching, LangChain

Financial Planning with AI | Full Stack | Group Project   Jan 2024 – April 2024
- Reduce the gap between financial data representation with the user. Implement a customizable dashboard to analyze existing data with ML models for future predictions.
  Python, NumPy, Pandas, Scikit-Learn, MongoDB, FastAPI, Pydantic, JWT Tokens, LRU_Caching, React

RAG Chatbot with History   Mar 2024

- Users can upload custom PDFs to the chatbot and interact with that data conversationally. Users can select LLM models and add additional prompts for customizability.
  Python, LangChain, Faiss-Index, GroQ, Streamlit

Student Performance Prediction | END to END   Feb 2024

- Machine Learning model to predict the score based on student's behavior and marks for subjects. Data pipelines, feature engineering, logs, and exception handling are implemented precisely.
  Flask, Scikit-Learn, CatBoost, XGBoost, HTML

Enterprise Software Development (Design) – Vision Care Optical   Sep 2023

- Comprehensive ERP System representation using UML Diagrams for Vision Care Optical to understand the flow of Customer Data, Payment Data & System Data

TECHNICAL SKILLS

- Programming Languages – *Java, C, C#, Python, R*
- Libraries & Frameworks – *Python, NumPy, Pandas, Scikit-Learn, Keras, Matplotlib, Seaborn, Excel, Power BI, LangChain, Llama Index*
- Database Management Basics – *SQL, MongoDB*
- Backend Development in Python – *FastAPI, Flask*
- Cloud Deployments basics – *AWS, Azure*
- Machine Learning Operations Intermediate – *MLOps*
- Generative AI & LLM Operations Intermediate – *LLMOps*

SOFT SKILLS & EXTRACURRICULAR

Critical Thinking & Decision Making   Jan 2024

- Won the 1st place in On-Quiz on an industrial session held by Sysco LABS Ministry of Fun's Book Club members

Leadership & Team Collaboration   Mar 2023

- Led my team to win 1st place in the Statistical Camp organized by the Department of Statistics and Computer Science UOK

Working as Freelancer   2015 - 2021

- 5 years of experience in Video animation & Design in Fiverr

Start Blogging & Research   Recently

- As a hobby and passion, starting to write about the latest technologies tools, and news in the IT Industry on platforms, DEV Community & Medium.