Kajamalan Sathiyalingam

Data Science Undergraduate
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 GitHub Profile
 LinkedIn Profile

Summary

Dedicated and detail-oriented Data Science undergraduate with expertise in **Machine Learning, Natural Language Processing (NLP), Large Language Models, Data Engineering, and Exploratory Data Analysis.** Proficient in applying advanced programming languages and analytical tools to uncover data-driven insights and solve complex problems. Passionate about leveraging data science techniques to address real-world challenges and contribute to impactful projects in dynamic and innovative environments.

Education

. Sri Lanka Institute Of Information Technology- SLIIT   2022-Present
BSc (Hons) in Information Technology Specializing in Data Science
– CGPA: 2.92

· J / Hindu college   2012-2020
G.C.E(A/L) Physical Science

Experience

• Detech   Aug 2025
AI/ML Developer intern   Dehiwala

Personal Projects

• Stroke Prediction System   2024

Developed a machine learning system to predict brain stroke risk and support early medical intervention

 GitHub Link

– Tools & technologies : Python, HTML, CSS, VS Code,Jupyter Notebook, Python Libraries, Flask.
– Handled missing data, encoded categorical variables, and addressed class imbalance using SMOTE.
– Trained and evaluated multiple ML models to improve prediction accuracy
– Deployed the system with a user-friendly interface and backend.

• Movie Recommendation System   2024

Developed a personalized movie recommendation system using collaborative and content-based filtering techniques.

 GitHub Link

– technologies : Python, Pandas, NumPy, scikit-learn, TF-IDF, Streamlit.
– Implemented content-based filtering using TF-IDF on movie metadata.
– Applied collaborative filtering with cosine similarity and nearest neighbors.

• Image Classification with CNNs and Grad-CAM   2024

Built an image classification model to distinguish cats vs dogs using deep learning.

 GitHub Link

– technologies : Python, PyTorch, ResNet18, CNNs, Grad-CAM.
– Implemented ResNet18 architecture for image classification.
– Integrated Grad-CAM to visualize model attention regions.
– Improved model transparency and interpretability and Evaluated model performance using accuracy.

• Product Sales Analysis Dashboard   2024

Designed an interactive dashboard to analyze sales performance and trends.

 GitHub Link

– technologies : Power BI, DAX, Data Modeling, Microsoft Excel.
– Analyzed 2020–2021 sales data for business insights.
– Created interactive visualizations using Power BI.
– Applied DAX functions for advanced metrics and Delivered actionable insights through visual storytelling.

• Online Supermarket Management System   2023

Developed a full-stack web application for supermarket operations.

 GitHub Link

– technologies : MongoDB, Express.js, React.js, Node.js (MERN Stack).
– Implemented CRUD operations for inventory management.
– Developed reporting and analytics features
– Improved operational efficiency through automation.

Technical Skills

Programming Languages
Python, R, Java, C, C++

Database
MongoDB, MySQL,SQL

Libraries and Frameworks
NumPy,Pandas,Matplotlib,Tensorflow,PyTorch,React,Keras,scikit-learn,SpaCy,NLTK,Fask,Streamlit

Version Control
Github

Applications and Tools
Google Colab, AWS, Microsoft Azure, PowerBI, GitHub,Visual Code,Jupyter Notebook,Excel

Big Data Technologies
Hado op,Spark

Large Language Models
Hugging Face, GPT, BERT,T5

Languages
English(Full Professional Proficiency)
Tamil(Native Proficiency)
Sinhala(Elementary Proficiency)

Certificates

- **Introduction to AI and Machine Learning** – Google Cloud, 2024

- **Introduction to Data Analytics**   – IBM, 2024

- **AI/ML Engineer - Stage 1 & 2**   – SLIIT, 2024

- **AWS Academy Graduate** – AWS Academy Cloud Foundations , 2024

- **Microsoft Azure Machine Learning Fundamentals** – LinkedIn, 2024

- **Data Analytics**   – NoviTech R&D Pvt Ltd , 2024

Soft Skills

Teamwork

Problem-Solving

Communication

Time Management

Decision Making

Interests

Travelling

Reading Books

Photography

Violin Play

Declaration

I declare that the information provided above is accurate and truthful to the best of my knowledge and belief. I am ready to furnish any additional details or documents required to support my application. I am dedicated to maintaining the highest transparency and authenticity in all the information I have submitted. If further clarification or additional information is needed, I am fully prepared to provide it promptly.

Yours Sincerely,
Kajamalan Sathiyalingam

Referees

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