KAVINDI RANGANA

Artificial Intelligence and Data Science Undergraduate

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🔺 portfolio   in LinkedIn   GitHub   Ⓜ Medium

Profile Summary

Motivated AI and Data Science undergraduate at Robert Gordon University (RGU) with a strong passion for Artificial Intelligence, Machine Learning, and Deep Learning. Gained hands-on experience in developing models, conducting research, and applying advanced algorithms to solve real-world problems. Actively seeking opportunities to contribute innovative ML solutions, leveraging both theoretical knowledge and practical skills to make a meaningful impact in the field.

Education

Informatics Institute of Technology (IIT)
(AffiliatedwithRobertGordonUniversityScotland, UK)

2023 - Present

- Bsc(Hons) in Artificial Intelligence and Data Science

2nd Year Modules

- Advanced Mathematics for Data Science
- Object Orientated Development
- Machine Learning
- Data Science Group Project

1st Year Modules

- Computational Mathematics
- English Communication Skills
- Web Technology
- Computer System Fundamentals
- Data Structures and Algorithms
- Programming Fundamentals
- Database Systems

University of Kelaniya

2022 - Present

- Bsc(Hons) in Physical Science

2nd Year Modules

- Scientific Computing using Appropriate Software
- Mechanics
- Waves and Optics
- General Physics Laboratory
- Linear Algebra
- Infinite Series

Visakha Vidyalaya Colombo 05

2013 - 2022

- Completed Advanced Level in Physical Science Stream (2021/22)
- Completed Ordinary Level (2018)

Projects

- **Prefina – AI Recommendations for Apparel eCommerce** [**View Project ↗**](View Project)   2025 Ongoing

  - Empowers small-to-mid-sized Shopify apparel merchants with real-time, AI-driven contextual product recommendations to boost conversion rates

  - Leverages privacy-preserving UUID user tracking and a scalable microservices architecture for low-latency, enterprise-grade performance

- **AI-Driven Ayurvedic Wellness Platform** [**View Demo Video ↗**](View Demo Video)   2024

  - Implementations of fundamental Machine Learning algorithms from scratch (Linear Regression, Logistic Regression, KNN, SVM, K-means clustering, and Hierarchical clustering)

  - Demonstrates practical understanding of ML and DL concepts, coding proficiency, and the ability to apply advanced techniques to real-world problems.

  - Implemented FastAPI for the backend to serve machine learning models and handle API requests. Built the React.js frontend with HTML, CSS, and JavaScript for dynamic user interactions.

  - Integrated databases (MySQL, MongoDB) for user data storage and ML predictions. Focused on UI/UX design for a seamless, user-friendly interface

- **Personalized News Recommendation System**   2024

  - Java-based personalized news system that recommends news articles based on user preferences, leveraging API integration, NLP, and machine learning algorithms for categorization and recommendation

  - Implementations of fundamental Machine Learning algorithms (collaborating filtering, content-based filtering) and Python, TensorFlow, Scikit-learn, MongoDB, APIs

Skills

- **Programming Languages:** Python, JavaScript, Java, Typescript
- **Machine Learning & Deep Learning Frameworks:** Scikit-Learn, numpy, pandas, matplotlib, PyTorch, TensorFlow
- **Tools, Libraries and Platforms:** Inteli J, Pycharm, Figma, Postman
- **Web Development:** React, Node.js, HTML/CSS

- **Machine Learning & Deep Learning Skills:** -Feature Engineering, Data Cleaning, Data Preprocessing, Data Analysis, Feature Selection, Model Training, Model Selection, Model Evaluation, SHAP Analysis , Neural Network
- **Software Engineering Skills:**
  - API Development, Frontend & Backend Development, OOP
  - Data Structures & Algorithms, Problem-Solving **Database**
- **Systems:** MySQL,MongoDB, SQL workbench

Extra Curricular Activities

- President, Lalitha Kala Society (2019/2020)
- Member, Junior Prefects Guild (2017/2018)
- Toastmasters Member (2018)
- **Exhibitor, InforV Exhibition (2017) - AR and VR**

Achievements

- All Island Singing Championship – Winner (2019 & 2020)
- All Island Carrom Tournament – 2nd Runner-Up (2016 & 2017)

Languages

- Sinhala (Fluent)
- English (Fluent)

References

Mr.Prashan Rathnayaka(MIASSL, SLAIHEE)
Lecturer in Mathematic & Statistics
Information Institute of Technology No:10,
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Declaration

- I hereby declare that the information provided is true to the best of my knowledge and belief.

11/16/2024
   Date

Signature