



Hewa Witharana Chiran Madushanka

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LinkedIn: <https://www.linkedin.com/in/chiran-hewawitharana>

Date of birth: 17/07/1995 **Nationality:** Sri Lankan

ABOUT ME

A graduate of the University of Kelaniya with Industrial experience as a Data Science Engineer who comprises a problem-solving skill set, passionate in learning along with knowledge sharing, and proven leadership who seeks to utilize the experience and knowledge to research and innovate for business problems.

WORK EXPERIENCE

[28/02/2022 – Current] **Senior Data Engineer**

Sysco Labs Technologies Ltd.

[\[Service Letter Link\]](#)

Address: 55A, Srimath Anagarika Dharmapala Mawatha, Colombo 03, 00300, Colombo, Sri Lanka
Contributed to Implementation and business support for big data extraction; transformation; warehousing and dashboard development. Engaged in building sales demand forecasting, and product recommendation models for Sysco US and Sysco International (Brakes- Europe).

Python | Apache Airflow | Apache Spark | AWS Redshift | Lambda | Data Pipelines | Tableau
MongoDB | SQL Server | SageMaker

[25/08/2021 – 25/02/2022] **Associate Data Engineer**

Arimac Lanka Pvt. Ltd.

[\[Service Letter Link\]](#)

Address: No 02, 6th Lane, Colombo 03, 00300, Colombo, Sri Lanka
Worked as an Associate Engineer while completing the final semester of my degree program. Implemented big data ETL processes, data warehousing, and business reporting for a data-driven fintech data analytical and reporting platform for Visa and MasterCard.

Python | Scala | Apache Spark | Azure Synapse Analytics | Data Factory | IBM SPSS | PowerBI
MongoDB | SQL Server

[19/08/2020 – 23/04/2021] **Trainee Associate Data Science Engineer**

Zone24x7 Pvt. Ltd.

[\[Service Letter Link\]](#)

Address: 460, Nawala Road, Koswatte, 10107, Colombo, Sri Lanka
Industrial Internship associated with my degree program. Contributed to develop the Analytics Center(TM) data platform: retail product recommendation and propensity prediction system and Django microservices to extract analytics insights from multiple data sources.

Python | Scala | Djanogo | Apache Spark | Pytorch | Tensorflow | Apache Hive | Hadoop | Hbase
| Airflow | SQL Server

EDUCATION

[25/02/2018 – 25/02/2022] **B. Sc. (Hons) in Management and Information Technology**

University of Kelaniya <https://www.kln.ac.lk/>

Address: Kandy Road, Dalugama, Kelaniya, 11600, Kelaniya, Sri Lanka

Final grade: 3.95/4.00 GPA (First Class)

PUBLICATIONS

[2021] **Wide and Deep Learning for Enhancing Context-Aware Recommender Systems in the Telecommunication Industry**

Reference: JSAI International Symposia on AI 2021 (IsAI-2021)

The research project aimed to mitigate challenges faced by fixed-line telecommunication firms by proposing an optimized context-aware personalized hybrid recommendation system using Wide and Deep learning and Factorization Machines.

CERTIFICATIONS

- [12/2020] **Machine Learning Specialization** Massachusetts Institute of Technology via EdX [\[Certificate Link\]](#)
- [11/2020] **Certificate in Machine Learning** Stanford University Online [\[Certificate Link\]](#)
- [10/2020] **Deep Learning with AI Specialization** DeepLearning.ai on Coursera [\[Certificate Link\]](#)
- [09/2020] **Machine Learning Specialization** Google LLC on Coursera [\[Certificate Link\]](#)

LANGUAGE SKILLS

English

LISTENING C1 **READING** C1
SPOKEN C1 **WRITING** C1

German

LISTENING A1 **READING** A1
SPOKEN A1 **WRITING** A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Data Science

Python | Tensorflow | Keras | PyTorch | Computer Vision | NLP | Time Series Forecasting

Data Engineering

SQL | MongoDB | AWS Redshift | Azure Synapse | Scala | Apache Spark | Pandas | Scylla DB | Azure Data Factory | Hive | Hadoop | Airflow | Kafka | GCP

Data Analytics and Visualisation

Tableau | PowerBI

Software Engineering (Full-Stack)

Angular2 | NodeJS | ReactJS | Git | Django | Java | JavaScript

PROJECTS

[04/2021 – 01/2022] **A Context-aware Hybrid Personalised Recommender System for Telecommunication Industry**

A hybrid personalized recommender system developed using Wide and Deep Learning, and Factorization Machines to recommend telecommunication service packages and products to subscribers. with awareness of subscriber contextual features.

Python | Tensorflow | Keras | PySpark | Pandas | Django | AzureML

Link: <https://github.com/cmadosankahw/leve-4-research-hybrid-recommender-for-fixed-line-telcome-SLT>

[11/2021 – 01/2022] **Data Warehousing and analytics - Olist e-commerce**

ETL pipelines and data warehousing employed Azure Data Factory, Synapse with a dedicated SQL pool. Predictive analytics for customer segmentation, product price prediction, and recommendations prediction implemented using Azure Machine Learning.

Link: <https://github.com/cmadosankahw/adb-dw-dm-synapse-azure>

[10/2020 – 12/2020] **CareGiver AI - Smart elder-care assistant**

System to automate the functionality of an elder caregiver. The project was based on the face recognition employing K-means clustering and deep learning with facial landmarks identification techniques.

Python | PyQt5 | Pandas | TensorFlow | Keras | Firebase

Link: <https://github.com/cmadosankahw/caregiver-face-detection-python>

[09/2020 – 11/2020] **Sentiment analysis for classification of fake news using LSTM**

This project is based on sentiment analysis and classification of news over the web. using an LSTM model to identify fake news sources.

Python | Pandas | TensorFlow | Keras | NLTK | Flask | Plotly

Link: <https://github.com/cmadosankahw/fake-news-detection-with-LSTM>

[01/2020 – 08/2020] **Evenza- Event management and resourcing platform**

A web application that provides real-time event organizing, scheduling and management, with an online marketplace for event-related service providers.

NodeJS | Express | Angular2 | MongoDB | ChartJS | Socket.io | Google Cloud

Link: <https://github.com/cmadusankahw/evenza-MEAN>

[08/2019 – 01/2020] **SmartCOP - Smart solution for traffic management and accident prevention**

SmartCOP is capable of analyzing road traffic and identifying road-rule violations, preventing road accidents with real-time CCTV video feeds using computer vision. The prototype of the alerting system was developed using Arduino.

Python | OpenCV | CNN with TensorFlow | Keras | Arduino

HONOURS AND AWARDS

[02/2022] **Research Excellence Award - Information Technology Awarding institution:** University of Kelaniya

Research Project: Enhancing Personalized Context-aware Recommender Systems for the Telecommunication Industry.

[12/2019] **Finalist- IEEE Innovation Nation Sri Lanka startup challenge Awarding institution:** IEEE Sri Lanka section

[12/2019] **Finalist - Codefest AI Innovator Awarding institution:** Sri Lanka Institute of Information Technology

[09/2019] **Winner - Invention Convention for Engineering Smart Systems for Industry (InCo V) Awarding institution:** University of Kelaniya

[07/2019] **Finalist - Mobitel Smart Sri Lanka hackathon Awarding institution:** Sri Lanka Telecom

VOLUNTEERING

[12/2019 – 01/2022] **Microsoft Learn Student Ambassador** Microsoft (Sri Lanka)

I organized knowledge-sharing and skill training sessions for university undergraduates to share hands-on experience on Microsoft technologies and Azure Cloud Services. Competed in Azure Cloud services-based skill challenges.

[01/2019 – 01/2020] **Chief Coordinator - hackX 2019 Inter-university Startup Challenge** Department of Industrial Management, University of Kelaniya

HackX is an inter-university startup challenge organized by the University of Kelaniya which is a platform to showcase innovative technology-based solutions for prevailing problems. Being the Chief coordinator, contributed to the whole event organizing successfully.

COMMUNICATION AND INTERPERSONAL SKILLS

Effective Communication

Strong Leadership

Analytical Problem Solving

NON-RELATED REFEREES

Senior Lecturer, Doctor of Engineering

Name: Dr. Chathura Rajapakse
Phone number: (+94) 713102034
Email: chathura@kln.ac.lk

Department of Industrial Management,
Faculty of Science,
University of Kelaniya, Sri Lanka

Associate Architect, Data Engineering

Name: Mr. Milroy Fernando
Phone number: (+94) 776186353
Email: milroy.fernando@sysco.com

Sysco LABS Technologies (Pvt) Limited,
55A, Srimath Anagarika Dharmapala Mawatha,
Colombo 03, Sri Lanka

I hereby declare that the information provided above is true to my belief and knowledge.

10/06/2023



Hewa Witharana Chiran Madushanka