

# CHAMIKA DILSHAN HAPUARACHCHI

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📍 Gampaha, Sri Lanka

## EDUCATION

**University of Sri Jayewardenepura (USJP), Sri Lanka**

*April 2022 - Present*

B.Sc. Physical Science (Computer Science, Statistics, Mathematics) (**reading**)

Faculty of Applied Sciences

## SKILLS

**Programming**

R, Python, Java Script

**Frameworks**

Django, Keras, Scikit-Learn, OpenCV

**Software**

Minitab, Microsoft Office, LaTeX

**Data Visualization Tools**

Plotly Dash

**Coursework**

Time Series Analysis, Machine Learning, Regression

Analysis, Statistical Inference, Probability Theory,

Data analysis and Preparation of Reports

Design of Experiments, Statistical Quality Assurance

## VOLUNTEERING

**Event Management Head**

*July 2024 - Present*

*Statistics Society, Department of Statistics, University of Sri Jayewardenepura*

- Organized DataXplore'25, an inter-university Data Science competition featuring a Quiz and a Datathon, overseeing event planning, coordination, and execution to promote data-driven problem-solving and collaboration.

**Co - Chief Organiser — AURORA 2024**

*November 2023 - June 2024*

*Computer Science Association, Department of Computer Science, University of Sri Jayewardenepura*

- Led the planning and execution of AURORA 2024, a conference focused on Generative AI and Digital Entrepreneurship. Key initiatives included organizing a nationwide Generative AI Ideathon, a Generative AI Quiz for Schools, and a conference with panel discussions featuring industry experts. Collaborated with a dedicated team to ensure a successful event, fostering innovation and engagement in the field of computer science

## LICENCES & CERTIFICATIONS

**IBM – Applied Data Science Specializaion**

*March 2025*

Certificate of completion from Coursera

**IBM – Specialized Models: Time Series and Survival Analysis**

*February 2025*

Certificate of completion from Coursera

**Machine Learning Explainability**

*November 2024*

Certificate of completion from Kaggle

**Feature Engineering**

*August 2024*

Certificate of completion from Kaggle

## PROJECTS

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### Fraud Detection and Credit Risk Scoring Model

December 2024

- Developed a fraud detection and credit risk scoring model for a financial institution as part of the ISC 2024 Case Study Poster Competition, organized by the Institute of Applied Statistics, Sri Lanka (IASSL). The model assigned a risk score (0-1000) to identify high-risk customers prone to credit default and potential fraud.
- Conducted Exploratory Data Analysis (EDA) to uncover financial and behavioral patterns associated with charge-offs and fraudulent activities. Developed a machine learning model to predict credit risk, optimizing for both accuracy and interpretability. To enhance transparency, applied SHAP to explain model decisions, identifying key factors influencing risk scores and ensuring regulatory compliance in credit risk assessment.

### Sri Lankan T20 Cricket Team Performance Analysis

October 2024

- Analyzed the performance decline of the Sri Lankan T20 team before and after 2015, focusing on key areas such as power play and middle-order batting.
- Trained an XGBoost classifier on various performance features to classify matches as pre- or post-2015, using SHAP analysis to interpret key performance shifts.
- Supported findings with Exploratory Data Analysis (EDA) and statistical hypothesis testing to validate performance trends.

### Learning Management System (LMS)

July 2024

- Developed and deployed a Learning Management System (LMS) for a client using Python and Django, featuring Exam and Quizzes Management, Payment Processing, and Exam Results Analytics.
- Built a secure backend with Django and MySQL, ensuring user authentication, role-based access control, and transaction tracking.
- Designed automated grading, performance analytics, and real-time progress tracking to enhance student engagement and decision-making.

### Real-Time Face Mask Detection

2022

- Developed a real-time face mask detection system using Python, OpenCV and a Convolutional Neural Network (CNN) with Keras.
- Trained the model on labeled face mask datasets, achieving accurate mask detection in live video streams.
- Integrated OpenCV for real-time image processing and detection, enabling automated compliance monitoring.

## REFEREES

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### Dr. Thiyanga S. Talagala

*PhD in Statistics, Monash University, AUS*  
Senior Lecturer  
Department of Statistics  
Faculty of Applied Sciences  
University of Sri Jayewardenepura  
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### Dr. Chathuri Jayasinghe

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