

# Ranuga Disansa

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## Summary

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Ranuga Disansa is a creative and analytical software engineering student with a passion for technology and a desire to push the boundaries of what is possible. Proficient in multiple programming languages and familiar with a wide range of software development tools.

## Education

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### Kingston University

BSc (Hons) Computer Science (Software Engineering) (Sri Lanka ESOF) Top Up Jan 2024 - Feb 2025

### ESOF Metro Campus

BSc (Hons) Computer Science (Software Engineering) Top Up and BCS Diploma Level Dec 2020 - Feb 2025

### Informatics Institute of Technology (IIT Campus)

Foundation Certificate in Higher Education – IT, Artificial Intelligence and Data Science Sep 2023 - Sep 2028

*Starting BSc (Hons) Computer Science from the University of Westminster in September of 2024*

## Experience

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### Technical Writer

Dec 2023 - Present

Medium, Sri Lanka

- Write articles on various technical topics, including software development, machine learning, and artificial intelligence. (Contributions available on Medium Profile, where articles are independently released)

## Projects

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### Find-Card

Feb 2022 - May 2023

- An Object Detection Project using Detectron2 (by @META)  
- Utilized Detectron2 and Open Images V6 dataset from Google

GitHub Link

### DataBridgeX

Month Year - Present

- Developed DataBridgeX, a data integration platform that enables seamless communication between different data sources  
- Implemented features such as data mapping, transformation, and synchronization

GitHub Link

### CivicCircle: AI-driven Solution

May 2024 - Present

- Developed innovative AI solution as part of Colombo AI Conclave 2024 MindStudio Hackathon  
- Recognized as a Top 10 Finalist among numerous submissions, demonstrating technical proficiency

GitHub Link

### Dimensionality-Reduction (DimRed)

Apr 2024 - Apr 2024

- Navigating the Complexity of High Dimensions: A Comprehensive Guide to Dimensionality Reduction Techniques  
- Developed DimRed, a comprehensive Python toolkit for advanced dimensionality reduction, integrating with major machine learning libraries and featuring real-time performance monitoring to enhance data analysis and model efficiency

GitHub Link

### NLP Disaster Tweets Classifier

Month Year - Month Year

- Predicted real disaster tweets using natural language processing techniques  
- Utilized PyTorch and TorchText for model development

GitHub Link

### Digit Recognizer V2

Jun 2023 - Jun 2023

- Learn computer vision fundamentals with the famous MNIST data  
- Developed a deep learning model using PyTorch

GitHub Link

## Skills

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- **Programming Languages:** Python, HTML, CSS, JavaScript, TypeScript, SQL
- **Web Development:** Flask, Bootstrap
- **API Development:** Flask Restful, FastAPI, ExpressJS
- **Machine Learning:** PyTorch, Sklearn
- **Deep Learning:** PyTorch, Detectron2
- **Databases:** MongoDB, SQLite, SQL
- **Cloud Providers:** Azure, Firebase, GCP
- **Other Tools:** Git, Postman, BeautifulSoup
- **No Code:** MindStudio

## Honors and Awards

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<b>Finalist (Top 10) - Colombo AI Conclave 2024 MindStudio Hackathon</b>	May 2024
<b>3x Kaggle Expert (Discussion, Datasets, Notebooks)</b>	Jan 2023
<b>2022 Young Computer Scientist Challenge Junior Section Award</b>	Nov 2022
<b>1st Runner Up - Hack:AI Hackathon School Category</b>	Aug 2022
<b>2020/2021 APICTA Nominee</b>	Oct 2021
<b>Second Place Winner - YCS 2021 Junior Section</b>	Jun 2021
<b>Junior Champion - Code Fest 2020</b>	Feb 2021

## Volunteer

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<b>Microsoft Open Source Developer (Volunteer)</b>	May 2024 - Present
Microsoft, Science and Technology	
<i>Contributed to Microsoft FLAML, addressing issues like missing method arguments and enhancing numerical precision in log outputs. Committed to ongoing development and community engagement.</i>	
GitHub Link	
<b>Industry Outreach Co-Lead</b>	Mar 2024 - Present
IEEE Computer Society Student Branch Chapter of IIT, Science and Technology	
<i>Lead efforts to connect our branch with industry, organizing events to bridge academia-industry gap and provide networking opportunities for members.</i>	
<b>Industry Outreach Volunteer</b>	Nov 2023 - Present
IEEE Computer Society Student Branch Chapter of IIT, Science and Technology	
<i>Recognized as the Industry Outreach (IO) Volunteer of the Month for fostering industry-academia collaboration. Assist in organizing events and coordinating with industry partners.</i>	
<b>Google Crowdsourcing Contributor</b>	Sep 2023 - Present
Google Crowdsourcing, Science and Technology	
<i>Contribute to Google Crowdsourcing tasks aimed at improving various Google services through user-facing training of different algorithms.</i>	
Crowdsourcing Link	