

# Chanupa Devnith Wijesinghe

Engineering undergraduate

Electronic and Telecommunication Engineering  
University of Moratuwa

wijesinghecd.21@uom.lk  
devnithw.github.io

## Summary

---

I am a first year undergraduate studying Biomedical engineering at University of Moratuwa. I am striving to apply mathematics, machine learning and signal processing skills to provide effective solutions in the healthcare industry.

**Research interests:** Computer Vision and Pattern Recognition, Digital Signal Processing, Medical Image Processing, Quantum Computing

## Education

---

**Faculty of Engineering, University of Moratuwa**

*Aug. 2022 - present*

Bachelor of Science (Hons) in Engineering  
Specialising in Biomedical Engineering  
GPA : 4.0/4.0

**Richmond College Galle**

*Jan. 2012 - Aug. 2020*

GCE Advanced Level - Physical science stream - 3A passes with an Z-score of 2.7301  
GCE Ordinary Level - 9A's

## Professional Experience

---

**Phoenix Cube Satellite Project**

*Feb. 2023 - present*

Member of the onboard-computing sub system

**Founding Partner - Hypeworks LK**

*Jul. 2022 - present*

Co-founder of the digital marketing agency Hypeworks LK  
Graphic designer, Web developer

## Projects

---

**Brain tumor detection using Neural Network**

*Kaggle*

A Convolutional Neural Network trained on a brain MRI dataset to detect tumors.  
<https://www.kaggle.com/code/devnithw/brain-tumor-detection-using-neural-network>

**Classifying blood cells using CNN**

*Kaggle*

A Convolutional Neural Network trained on a dataset of blood cell images to classify them into 8 groups.  
<https://www.kaggle.com/code/devnithw/classifying-blood-cells-using-cnn>

**Mathematical modelling and machine learning using Julia**

*Educational*

A collection of Julia tutorial notebooks written using Pluto.jl and hosted on Github pages.  
<https://devnithw.github.io/julia-tutorials>

## Honors and Awards

---

Spirit of Service Award, Rotaract Mora	<i>May. 2023</i>
Dean's list placement (Semester 1), Faculty of Engineering, University of Moratuwa in	<i>Dec. 2022</i>
Sri Lanka Chemistry Olympiad Honorable Mention	<i>Jan. 2020</i>
Sri Lanka All Island Mathematics Quiz Bronze medal	<i>Jan. 2020</i>
Principal's medal for best OL results, Richmond College	<i>2018</i>

## Volunteering

---

### IEEE EMBS Student Chapter, University of Moratuwa

Executive Committee - Content Creator	<i>Jul. 2023 - present</i>
Member	<i>Jan. 2023 - Jun. 2023</i>

### Rotaract Club of University of Moratuwa

Co-director of Membership Development	<i>Jun. 2023 - present</i>
Co-chair of Premio Foramalita and Euphoria Prom	<i>Apr. 2023 - May. 2023</i>
Co-chair of project Manusath Handa	<i>Aug. 2022 - May. 2023</i>
Inducted Member	<i>Sep. 2022 - May. 2023</i>

### Mathematics Society, University of Moratuwa

Design team - M-Pirates	<i>Jan. 2023 - present</i>
-------------------------	----------------------------

### Head of Public Relations, RichMUN'21

*2021*

### President of Richmond College Science Society

*2019 - 2020*

## Technical Skills

---

<b>Languages:</b>	Julia, Python, MATLAB , C, C++, Javascript
<b>Markup:</b>	HTML, CSS, L <sup>A</sup> T <sub>E</sub> X, Markdown
<b>Frameworks:</b>	Tensorflow, Pytorch, NumPy, Scikit-learn
<b>Software:</b>	Unity Engine, Solidworks, Adobe Photoshop, Adobe Premier Pro
<b>Tools/Other:</b>	Git, Github