

Yovin Ransika Yahathugoda

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LinkedIn Profile - <https://www.linkedin.com/in/yovin-yahathugoda-905760136/>

Kaggle Profile - <https://www.kaggle.com/yovinyahathugoda/competitions>

GitHub Profile - <https://github.com/yoviny/Deep-learning-Competitions>

Digital Portfolio - <https://www.yovinyahathugoda.com/>

PROFESSIONAL EXPERIENCE

Self-Employed, Sri Lanka

20/12/2019 – Present

Freelance Computer Vision Engineer

- Full-time Kaggle participant involved in Data Science and Deep Learning competitions in areas such as medical and Optical Character recognition (OCR).
- Developed a visual fabric width inspection system as a prototype for a textile manufacturer in Sri Lanka.

John Keells Research (A division of John Keells Holdings PLC), Sri Lanka

02/04/2018 – 30/11/2019

Research Engineer

- Devised an imaging system capable of capturing images in multiple wavelengths by developing the electronic design and program code.
- Analyzed Multispectral images using image processing techniques to obtain hidden details of target object.
- Developed a drone based on opensource hardware to match unique requirements.
- Designed PCB's using Eagle PCB and performed circuit simulations in Orcad.
- Reduced 3D print failures up to **40%** by upgrading existing 3D printer with new hardware and re-programming based on opensource firmware.
- Overcame software and electronic related errors in projects at JKR by troubleshooting and debugging.
- Identified and procured equipment and components required for the project and performed prior art searches related to the research project.
- Participated in team discussions focused on developing novel ideas with a market potential.

Sri Lanka Ports Authority, Colombo, Sri Lanka

07/11/2016 - 29/01/2017

Engineering Intern - (Part of the industrial training required for the degree)

- Diagnosing faulty networks inside the Colombo Port and supervising network cable repair jobs.
 - Upgraded communication line between Engine room and control room of a Tugboat.
 - Designed a system to monitor room temperature of Telephone Exchange and sound an alarm when temperature exceeds a certain level.
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EDUCATION

BEng (Hons) in Electronic Engineering - 1st Class Honours (74.31%)

09/2014 – 01/2018

- Degree awarded by Sheffield Hallam University UK.
- **Thesis title** - Navigation System to Assist the Visually Impaired using Stereo Vision and Audio Feedback - This included Computer Vision and Machine Learning using Python, OpenCV and LIBSVM.

Special Training Course in Industrial Automation

08/2014 - 09/2014

Ceylon - German Technical Training Institute - Short course focused on basics of Programmable Logic Controllers (PLC).

CORE COMPETENCIES

Programming - Python, C, C++, OpenCV, PyTorch, Tensorflow, Keras, Pandas, Linux

Software – Eagle PCB, OrcAD, Matlab, Arduino, Visual Studio, Microsoft Word, Excel and PowerPoint

Languages – English (Fluent), Sinhala (Native)

MEMBERSHIPS

Institution of Engineering and Technology (IET) – Member (MIET)	2018 - Present
Institute of Electrical and Electronics Engineers (IEEE) - Member	2016 – Present

CERTIFICATIONS

Big Data Specialization – University of California San Diego	03/05/2020
Deep Learning Specialization – deeplearning.ai (By Andrew Ng)	08/01/2020
DL0101EN: Deep Learning Fundamentals with Keras – IBM	30/11/2019
PH125.8x: Data Science: Machine Learning - HarvardX	27/11/2019

SKILLS AND ACHIEVEMENTS

AI/Deep Learning Competitions

- Ranked in the **top 3%** (59th out of 2059 participants) of the [Bengali handwritten classification](#) challenge hosted on Kaggle.

Extra-Curricular Activities

- Volunteering – John Keells Foundation (CSR), Buddhist Society of Lyceum International School Nugegoda
- President of Aeronautical Club at Lyceum International School Nugegoda.
- Shortlisted in two categories in the Astronomy Astrophotographer of Year 2021 competition hosted by Royal Museums Greenwich, UK.