



## SIDDHARTHA LAMA

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## SKILLS

- Python
- Data analysis
- Google Cloud
- AI/ML
- RTOS
- SQL
- Linux
- C/C++
- CCNA
- Electronics & Telecommunications

## LANGUAGES

- ENGLISH
- NEPALI
- FINNISH
- HINDI

## JOB EXPERIENCE

Company: Metropolia AIoT Garage  
Position: Intern  
Period: 5 months  
13.09.2023 – 13.02.2024  
Role: Creating AI model for image classification using GCP , VERTEX AI  
Employer:  
[erkki.rasanen@metropolia.fi](mailto:erkki.rasanen@metropolia.fi)  
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## SUMMARY

As an 4<sup>th</sup> year IoT engineering student in Metropolia nearing my graduation.

Besides my academic background in telecommunication and electronics, I have a strong understanding of sensors, data analytics, and free IOT cloud platforms, and have worked on projects that involve real-time monitoring and control of various systems.

My skills in programming, data analysis, ML/AI, Google Cloud, and problem-solving makes me an asset to any team working on IoT solutions.

## EDUCATION

- [Bachelor in IT engineering \(Major IoT\)](#)  
[Metropolia University of Applied Sciences](#) -Finland( 2021 – 2024)
- [Master of Science in Technology \(Telecommunication\)](#)  
[Vaasa University](#) - Finland ( 2010 – 2013 )
- [Bachelor in Electronics and Communications](#)  
[Pokhara University](#) – Nepal ( 2005 – 2009 )

## PROJECTS / THESES

### 1. [GitHub Portfolio webpage](#)

### 1. Portfolio Projects related to data analysis and machine learning. [Project](#)

### 2. Co2 Monitoring/controlling system for Greenhouse. [Project](#) | [Source code](#).

- [Vaisala](#)-Hackathon: Used rotary encoder to set the Co2 setpoint. Automated the valve to control the flow of Co2 injection. Collected the readings of the sensors and displayed in on [ThingSpeak](#) IOT cloud platform using MQTT, Free RTOS, LPC 1549, MCU Xpresso IDE.

### 3. Green House Automation. [Project](#) | Source code.

- The readings of temperature and Humidity, soil moisture sensor, and light sensor were collected, and based on that, actuators such as fan, water pump, and light were automated using Raspberry PI 3. The set point could be viewed and controlled remotely from the IOT cloud Platform called [Cayenne](#).

### 4. Smart Biometric Door Lock System. [Project](#) | [Source code](#).

- Used a fingerprint sensor along with ESP 32 to design a biometric door lock system. IoT cloud platform [Cayenne](#) was used to remotely add users if necessary and to check and control the status of the door remotely.

### 5. [Bachelor Thesis](#): Green House Automation and Monitoring System Design and Implementation: A case study of Nepal

- The goal was to create an affordable greenhouse automation system using Raspberry PI 4 and economic sensors for Nepalese farmers. The system was tested in a real greenhouse, and all issues were fixed. The plant growth progress was compared between the automated and manual systems using data collected over 15 days.

### 6. *Master Thesis*: LTE-advance uplink PAPR improvement. [Documentation](#)

### 7. Web Interface for ABB ventilator controller System. [Project](#) | [Source](#)

### 8. Other Minor projects based on python:

- [Web Scrapping](#) , [Payroll System](#), [Notebook pickle](#), [Excel Dashboard](#)