

# Manith Ratnayake

Intern Business Analyst | Data Scientist | Machine Learning Engineer

☎ (+94) 77 695 55 92

✉ manith.20211111@iit.ac.lk

in manith-ratnayake

🌐 manithbbratnayake04.web.app

💎 Manith-Ratnayake

Dear Sir/Madam,

With the enclosed resume, I would like to express my strong interest in an **internship** at your company. I am a third-year undergraduate pursuing a BSc (Hons) in Artificial Intelligence & Data Science at Informatics Institute of Technology (IIT) affiliated with Robert Gordon University (RGU) in Aberdeen, Scotland. I am eager to apply my academic knowledge to real-world challenges within your organization.






I excel in fast-paced, delivery-oriented environments, leveraging my strong analytical skills to define problems, collect data, and draw valid conclusions. My excellent verbal and written communication abilities, along with my capacity to independently research issues using existing documentation, make me an effective and resourceful team member.

Thank you for considering my application. I am look forward to contributing to your company's success

Thank you,  
Manith Ratnayake

# Manith Ratnayake

Intern Business Analyst | Data Scientist | Machine Learning Engineer

 (+94) 77 695 55 92    manith.20211111@iit.ac.lk    manith-ratnayake    manithbbratnayake04.web.app    Manith-Ratnayake

## PROJECTS

- A Prediction Model & Early Warning System for Natural Disasters**  
Developed a mobile application with a team of 4 members to predict floods, landslides, and cyclones in Sri Lanka
  - XGBoost
  - RandomForest
  - Python
  - Java
  - Firebase
  - HerokuAchieved MSE between 0.15 and 0.25 and MAE between 0.35 and 0.45 across all models.
- HCHO Gas Emission Analysis**  
Analyzed and predicted future HCHO gas emissions in Sri Lanka using LSTM neural networks.
  - TensorFlowAchieved low values in MSE and MAE, with room for improvement in RMSE.
- UCI Dataset Analysis**  
Analyzed and predicted outcomes using datasets from the UCI repository
  - Census Income
  - IRIS
  - Dry Bean
  - Heart Disease
  - RaisinDeveloped and applied various machine learning algorithms for data analysis.
- LLM Bot**  
Developed an LLM bot capable of understanding and providing answers based on private data.
  - Python
  - OpenAI
  - LangChainSuccessfully implemented a functional LLM bot.

## EDUCATION

**BSc (Hons) in Artificial Intelligence & Data Science** Sept 2022 – Present  
Affiliated with Robert Gordon University (RGU) in Scotland (at IIT)

Year 1		Year 2	
Database Technology	B	Artificial Intelligence	B
Computer Systems	B	Data Science Group Project	B
English Communication	B	Data Engineering	C
Computational Mathematics	C	Advance Mathematics	C
Web Technology	C	Machine Learning	C
Data Structures & Algorithms	D	Object Oriented Development	C
Programming Fundamentals	D	Simulation and Modeling	D

**Distinction - Foundation for Higher Education** 2021 – 2022  
IIT (Informatics of Institute of Technology)

**6As - G.C.E. O/L at D.S. Senanayake college** 2021  
A – English                      B – Mathematics

## SKILLS

---

### Programming Languages / Libraries

- Python, Java, JavaScript, NodeJS, React, C

### Data Science

- Sci-kit learn, Pandas, NumPy, Seaborn, Matplotlib, PySpark, Keras, PyTorch, tensorflow

### Data Visualization

- PowerBI, Tableau, QuickSight

### Databases

- MySQL, PostgreSQL, MongoDB

### Project Management

- Jira

### Cloud Computing

- Amazon Web Services, Google Cloud Platform

### Soft Skills

- Ambitious, Innovative, Eager to complete challenging tasks

## CERTIFICATES

---

- IEEEExtreme 17.0 Global Competition
- IEEEExtreme 16.0 Global Competition
- IEEE AI-Driven Sri Lanka LLM Competition
- IEEE Prologue Hackathon
- Rotaract Parallax 2022 Web Development Competition

## EXTRA - CURRICULAR ACTIVITIES

---

- Member, IEEE branch at IIT participating in events, bootcamps & competitions.

## REFERENCES

---

Mr. Mohamed Ayooob

Lecturer

At Informatics Institute of Technology

Email: ayooob.m@iit.ac.lk

Mr. Sachintha Ponnampereuma

Trainee Software Engineer

At a private company

Email: sachinthaponnamperuma@gmail.com