

# Leo Raphael Rodrigues

## MSc | MBZUAI

First Year, Computer Science  
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Github  
LinkedIn

## Education

2025-PRESENT  
MSC, CS  
MBZUAI, Abu Dhabi, UAE  
CGPA: 3.83/4

2019-2023  
B.TECH., CSE  
NIT Rourkela, Odisha, India  
CGPA: 7.93/10

APRIL 2019  
INTERMEDIATE  
Abu Dhabi Indian School, Abu Dhabi  
Percentage: 93.6%

## Skills

ARCHITECTURES AND FLOWS  
.NET (Microservice), Angular (Plugin),  
Camunda BPMN (Process Orchestration)  
GENERAL PROGRAMMING  
C#, C++, C, Python, Angular, JavaScript, MySQL

LANGUAGES  
English, Hindi, Konkani, French

## Relevant Courses

Machine Learning  
Data Structures and Analysis of Algorithms  
Mathematical Foundations of AI  
Probabilistic and Statistical Inference  
Neural Nets and the Transformer Architecture  
Neural Machine Translation  
Data Warehousing and Mining  
Operating Systems  
Computer Networks

## Projects/Work Experience

OCT, 2025 - PRESENT **Graduate Researcher** MBZUAI  
**Topic: Model Interpretability and Analysis**

Working on using Mechanistic Interpretability to analyze the inner workings of models that use hierarchical reasoning (like HRMs, TRMs etc).

JUL, 2023 - JUL, 2025 **Software Engineer** GEP Worldwide  
**Full-Stack Software Development**

Developed scalable .NET microservices and Camunda workflows for the P2P platform, serving 100+ global clients and cutting wait times by 60%. Built modular Angular front-end components and integrated AI-driven recommender and OCR systems to enhance procurement efficiency.

AUG, 2022 - JUL, 2023 **Undergraduate Researcher** NIT Rourkela  
**Topic: Neural Machine Translation over Indic Languages**

Built Neural Machine Translation Systems for English to Indic languages (and vice versa). Used PyTorch, fair-seq and the transformer architecture for the systems over 15 Indic Languages. Also developed a novel algorithm for data augmentation using back-translation.  
[Link to Work](#)

## Publications, Certifications, and Achievements

AUG, 2024 **An approach for mistranslation removal from popular dataset for Indic MT Task** RANLP Workshop, 2024  
[/Link/](#)

JUL, 2022 **Winner of GEP Techathon** GEP Worldwide  
Won the GEP Techathon 2022. [/Link/](#)

## Extra Curricular Activities

SEPT, 2025 - PRESENT **Table Tennis Team** MBZUAI  
Runner up in the inter-university table tennis league (IIT-DAD Tournament)

2021-2022 **Editor-in-Chief** Degree361  
Co-Editor-in-Chief of the college magazine Degree361. Leading team to run blog and social page and curate magazine.

NOV, 2020 - APR, 2021 **Co-Chief Curator** TEDxNITRourkela  
Led the curation team for TEDxNITRourkela.