

Leo Raphael Rodrigues

MSc | MBZUAI

First Year, Computer Science
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Github
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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.