

# Mohamed Fazli Imam

Research Associate at MBZUAI  
Abu Dhabi, United Arab Emirates  
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## EDUCATION

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<b>Mohamed Bin Zayed University of Artificial Intelligence</b> <i>Master of Science in Machine Learning (Fully funded scholarship)</i>	Aug 2022 – May 2024 CGPA 3.60/4.00
<b>Sri Lankan Institute of Information Technology (SLIIT)</b> <i>Bachelor of Science (Hons) in Information Technology with specialization in Data Science</i>	Jan 2016 – Dec 2020 GPA 3.81/4.00

## PUBLICATIONS

Mohamed Fazli Imam, Rufael Fedaku Marew, Jameel Hassan, Mustansar Fiaz, Alham Fikri Aji, Hisham Cholakkal, “CLIP meets DINO for Tuning Zero-Shot Classifier using Unlabeled Image Collections” in *Under Review in AAAI*, 2024. [Available Here](#)

Ahmed Elshabrawy, Thanh-Nhi Nguyen, Yeeun Kang, Lihan Feng, Annant Jain, Faadil A. Shaikh, Jonibek Mansurov, Mohamed Fazli Imam, Jesus-German Ortiz-Barajas, Rendi Chevi, Alham Fikri Aji, “Encoder-only Models are Efficient Crosslingual Generalizers” in *Under Review in ACL ARR Submission*, 2024.

David Orlando Romero Mogrovejo, Chenyang Lyu, Haryo Akbarianto Wibowo,...Mohamed Fazli Imam,...Thamar Solorio, Alham Fikri Aji, “CVQA: Culturally-diverse Multilingual Visual Question Answering Benchmark” in *NeurIPS Datasets and Benchmarks Track*, 2024. [Available Here](#)

Mohamed Fazli Imam, Achinthya Subasinghe, Hiruni Kasthuriarachchi, Senura Fernando, Prasanna S. Haddela, Nadeesa Pemadasa, “Moderate Automobile Accident Claim Process Automation Using Machine Learning” in *International Conference on Computer Communication and Informatics (ICCCI)*, 2021. [Available Here](#)

## EXPERIENCE

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<b>Research Associate</b> <i>Mohamed Bin Zayed University of Artificial Intelligence</i> <ul style="list-style-type: none"><li>Conducting research on multimodality and visual-temporal reasoning in vision-language models, addressing complex challenges in these domains.</li></ul>	July 2024 – Present
<b>Data Science Intern</b> <i>Abu Dhabi National Oil Company (ADNOC - Panorama Department)</i> <ul style="list-style-type: none"><li>Conducted exploratory data analysis and deployed a sophisticated time series model to forecast the dynamic rate of flow for a gas cracker.</li><li>Developed and implemented an innovative NLP-based Q&amp;A system for drilling reports, leveraging LLM model APIs to extract valuable insights and deliver accurate contextual answers. <a href="#">REPO</a></li></ul>	Jun 2023 – Jul 2023
<b>Data Science Associate</b> <i>STAX Inc</i> <ul style="list-style-type: none"><li>Conducted due diligence for private equity firms to determine the viability of potential investments.</li><li>Scraping reviews and listings from popular websites, I analyzed them to comprehend the client’s market, its competitors, and consumer sentiment</li><li>Integrated these insights with data from surveys and other sources, this comprehensive approach offered valuable intelligence for investment decisions.</li></ul>	Feb 2022 – Jul 2022
<b>Junior Data Scientist</b> <i>National Intensive Care Surveillance Unit (NICST)</i> <ul style="list-style-type: none"><li>Conducted exploratory data analysis and various data manipulation tasks to clean, transform, and prepare clinical trial datasets for analysis.</li><li>Developed automation scripts to streamline the process of mapping data between different systems and formats.</li></ul>	Jul 2021 – Dec 2021

## PROJECTS

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- Label-free Adaptation of CLIP for Remote Sensing** Masters Thesis
- Developed and implemented a label-free adaptation method for remote sensing scene classification, ALP-RS.
  - Explored the efficacy of auto-labelled prompt tuning by leveraging contextual knowledge from LLM to generate pseudo labels and adapt CLIP for remote sensing setting.
- Fine-Grained Image Classification Using Counterfactual Learning** Feb 2022 – May 2022
- Explored the impact of learned attentions and uncorrected (counterfactual) attentions on the final classification score in the context of fine-grained image classification.
  - Conducted several experiments to analyze how counterfactual attentions, generated by perturbing the feature maps, would influence the classification score.
- Domain Adaptation for RGB to Thermal Images** [REPO](#) Feb 2022 – May 2022
- Conducted an investigation into the effectiveness of combining feature-rich visible spectrum and thermal image modalities for urban road scenes in an unsupervised setting.
  - Implemented a triple-branch weight-sharing transformer architecture for experimentation of domain adaptation.
- Football Game Outcome Prediction** [REPO](#) Oct 2022 – Nov 2022
- Developed and assessed the effectiveness of a machine learning model for predicting the outcome of football matches using player statistics, team statistics, and previous match statistics.
  - Scraped data related to teams participating in the FIFA 2021 World Cup and generated predictions for group stage matches to the grand finale.
- Automobile Damaged Component Detection** Bachelors Thesis
- Developed and explored the capabilities of computer vision algorithms to automate the process of automobile accident claim processing.
  - Trained and fine-tuned state-of-the-art CNN models using a web-scraped dataset consisting of images of automobile damaged components.
- Optimizing Direct Mail Fundraising** June 2019 – Oct 2019
- Developed a machine learning pipeline to optimize direct mail fundraising for using a fictional organization.
  - The machine learning pipeline included a classification model for predicting the likelihood of a person donating and a regression model for estimating the donation amount they would likely contribute.

## TECHNICAL SKILLS

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**Languages:** Python, R, SQL  
**Cloud:** ML in AWS, Azure ML Studio  
**Developer Tools:** VS Code, Git, GitHub, Shell, Bash  
**Visualization Tools:** Tableau, PowerBI

## ACHIEVEMENTS

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- Mentored the team which won "Best Team Award" in Undergraduate Research Internship Program (UGRIP) at MBZUAI)
- Fully-funded Masters Scholarship at MBZUAI)
- SLIIT Deans' List Recipient for second year, third year and final year (Semester 1 and Semester 2)

## REFERENCES

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- Available on request