






Mohamed Fazli Imam

Research Associate at MBZUAI

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EDUCATION

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

EXPERIENCE

Machine Learning Researcher <i>Mohamed Bin Zayed University of Artificial Intelligence</i> <ul style="list-style-type: none">Led research initiatives on multimodality and visual-temporal reasoning in vision-language models.Developed and deployed a novel evaluation dataset to benchmark the performance of vision-language models in visual-temporal reasoning. CODECollaborated with external research groups and interdisciplinary teams to advance research on vision-language models.	Jul 2024 – Present
Data Science Intern <i>Abu Dhabi National Oil Company (ADNOC - Panorama Department)</i> <ul style="list-style-type: none">Led exploratory data analysis and implemented a time series forecasting model to predict dynamic flow rates for gas crackers, optimizing operational decision-making and process efficiency.Engineered and deployed an NLP-based Q&A system for drilling reports, leveraging LLM model APIs to extract actionable insights and deliver precise, context-driven answers to improve data accessibility and decision support. CODE	Jun 2023 – Jul 2023
Data Scientist <i>STAX Inc</i> <ul style="list-style-type: none">Conducted due diligence for private equity firms, evaluating the potential of investments through data-driven insights and market analysis to support strategic decision-making.Engineered data pipelines to scrape reviews and listings from major websites, providing a comprehensive analysis of the client's market, competitors, and consumer sentiment, facilitating actionable business intelligence.Synthesized insights from diverse data sources, including web scraping and surveys, to deliver strategic recommendations that helped clients make informed investment decisions.	Jul 2021 – Jul 2022
Data Scientist <i>National Intensive Care Surveillance Unit (NICST)</i> <ul style="list-style-type: none">Led exploratory data analysis and data transformation initiatives, preparing clinical trial datasets for analysis to support evidence-based decision-making in healthcare.Engineered automation scripts to optimize the data mapping process across various systems and formats, enhancing data integration and streamlining workflows.	Nov 2020 – Jun 2021

SELECTED PROJECTS

Label-free Adaptation of CLIP for Remote Sensing <ul style="list-style-type: none">Engineered and deployed a label-free adaptation method (ALP-RS) to enhance remote sensing scene classification, eliminating the need for labeled datasets.Explored the efficacy of auto-labelled prompt tuning by leveraging contextual knowledge from LLM to generate pseudo labels and adapt CLIP for remote sensing settings.	Masters Thesis
Fine-Grained Image Classification Using Counterfactual Learning <ul style="list-style-type: none">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 [CODE](#)

- Investigated 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 [CODE](#)

- Engineered 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.

Optimizing Direct Mail Fundraising

- Engineered a machine learning pipeline to optimize direct mail fundraising for 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.

IoT Temperature Prediction with Dashboard

- Led the development of a Node-RED dashboard on IBM Cloud to visualize 12-month temperature forecasts.
- Designed and implemented time series models to predict temperatures in major Sri Lankan cities.

Visual Analytics with Batch and Streaming Data

- Deployed a mock hotel website with tracking codes to analyze user sessions via Google Analytics and Data Studio.
- Performed real-time streaming analytics on Uber-Lyft data using Siddhi and MySQL, enabling live SQL queries.
- Visualized insights using Tableau and Power BI.

SELECTED 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 *To be submitted to **NeurIPS***, 2025. [Available Here](#)

Mohamed Fazli Imam, Chenyang Lyu, Alham Fikri Aji, “Can Multimodal LLMs do Visual Temporal Understanding and Reasoning? The answer is No! ”, *Preprint*, 2025. [Available Here](#)

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](#)

TECHNICAL SKILLS

Development: Python, PyTorch, ML Libraries & Frameworks, R, SQL, RAGs, Agentic AI Libraries, Docker

Cloud: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

Visualization Tools: Tableau, PowerBI

ACHIEVEMENTS

- The team under my mentorship won the “Best Team Award” in the Undergraduate Research Internship Program (UGRIP) at MBZUAI.
- Awarded a Fully-funded Masters Scholarship at MBZUAI, recognizing academic excellence and research potential in the field of Artificial Intelligence.
- Consistently recognized on the SLIIT Deans’ List for second, third, and final year (both Semester 1 & Semester 2).

REFERENCES

- Available on request