

Mohamed Fazli Imam

Research Assistant 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 CGPA 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

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.

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,..., Tamar Solorio, Alham Fikri Aji, “CVQA: Culturally-diverse Multilingual Visual Question Answering Benchmark” in *The Thirty-eight Conference on NeurIPS Datasets and Benchmarks Track*, 2024.

Mohamed Fazli Imam, Achinthya Subasinghe, Hiruni Kasthuriarachchi, Senura Fernando, Prasanna S. Haddela, Nadeesa Pemadasa, “Moderate Automobile Accident Claim Process Automation Using Machine Learning” in *2021 International Conference on Computer Communication and Informatics (ICCCI)*, 2021, pp. 1-6, doi:10.1109/ICCCI150826.2021.9457017. journal=2021 ICCCI, year=2021, pages=1-6

EXPERIENCE

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

PROJECTS

- 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

Languages: Python, R, SQL
ML Libraries: Pandas, NumPy, Scikit-learn, Keras, PyTorch
Cloud: ML in AWS, Azure ML Studio
Developer Tools: VS Code, Git, GitHub, Shell, Bash
Visualization Tools: Tableau, PowerBI

ACHIEVEMENTS

- SLIIT Deans' List Recipient for Year 2 (Semester 1 and Semester 2)
- SLIIT Deans' List Recipient for Year 3 (Semester 1 and Semester 2)
- SLIIT Deans' List Recipient for Year 4 (Semester 1 and Semester 2)
- Fully-funded Masters Scholarship at Mohamed Bin Zayed University of Artificial Intelligence)

REFERENCES

- Available on request