

Fazli Imam

AI Researcher (Level II) 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

TECHNICAL SKILLS

- Programming Languages & Libraries:** Python, R, SQL, NoSQL, NumPy, Pandas, SciPy, Scikit-learn, XGBoost, BeautifulSoup, Selenium, FastAPI, Flask, PyTorch, Keras
- AI Frameworks:** HuggingFace Transformers, MLflow, Weights & Biases, OpenAI API, LangChain, Agentic AI
- Data Engineering & MLOps Tools:** ETL, RAGs, Databricks, Docker, Airflow
- Cloud Platforms:** AWS (S3, EC2, SageMaker), Azure (ML Studio, Databricks), Google Cloud Platform
- Data Visualization Tools:** Tableau, Power BI, Seaborn, Matplotlib
- Development & Collaboration Tools:** Git, Bash scripting, Google Analytics

EXPERIENCE

AI Researcher <i>Mohamed Bin Zayed University of Artificial Intelligence</i>	Jul 2023 – Present
<ul style="list-style-type: none">Led research on visual-temporal reasoning, developing the TemporalVQA benchmark to evaluate advanced MLLMs including GPT-4o, LLAVA, LLAMA, InternVL, QwenVL and Gemini-1.5 Pro, revealing significant limitations in temporal understanding and reasoning capabilities of MLLM.Contributed to grassroots AI initiatives aimed at enhancing cultural and linguistic diversity in AI systems, including the development of the CVQA Benchmark, a culturally-diverse multilingual VQA dataset covering 31 languages and 13 scripts across 30 countries, and the SEACrowd project, a multilingual multimodal data hub and benchmark suite designed to support 36 Southeast Asian languages.Collaborated with external research groups, notably IBM Research, Cohere, and Alibaba Research, as well as interdisciplinary teams, to advance cutting-edge research in AI.Served as a reviewer for ACL conferences	
Fellow <i>Abu Dhabi National Oil Company (ADNOC - Panorama Department)</i>	Jun 2023 – Jul 2023
<ul style="list-style-type: none">Led and built an SARIMAX time series model on 6.59 million entries to forecast gas cracker flow rates, enhancing process efficiency. Performed end-to-end data preprocessing, cleaning, exploratory data analysis (EDA), feature engineering, and modeling.Engineered an NLP-based Q&A system for oil drilling reports using LLM APIs to extract insights and improve decision making. Experimented with embeddings from DaVinci, GPT-3.5-turbo, Bard, Falcon-13B/40B for query-context matching, evaluated on speed, cost, performance, and compute efficiency. CODE	
Data Scientist <i>STAX Inc</i>	Jul 2021 – Jul 2022
<ul style="list-style-type: none">Conducted due diligence for private equity firms across five investment opportunities, leveraging data-driven insights and market analysis to evaluate potential deals and support strategic decision-making.Engineered pipelines to scrape 100K+ reviews and listings from major platforms, enabling in-depth analysis of market trends, competitors, and consumer sentiment to deliver actionable business intelligence for clients.Synthesized insights from multiple diverse data sources, including web scraping and survey data, to deliver strategic recommendations supporting clients' data-driven investment decisions.	
Data Scientist <i>National Intensive Care Surveillance Unit (NICST)</i>	Nov 2020 – Jun 2021
<ul style="list-style-type: none">Led data transformation, EDA, and statistical modeling on clinical trial datasets comprising 96 variables for 800+ patients across 17 medical clinics, enabling analysis to support evidence-based decision-making in healthcare.Engineered automation scripts to streamline data mapping across five systems and formats, cutting the processing time of the previously implemented system by half and significantly reducing manual effort in clinical workflows.	

SELECTED PROJECTS

Label-free Adaptation of CLIP for Remote Sensing [LINK](#)

Master's Thesis

- Engineered and deployed a label-free adaptation method for **Remote Sensing Scene Classification (RSSC)**, which outperformed the prior state-of-the-art by **5%** across **10** benchmarks.
- Explored the efficacy of auto-labelled prompt tuning by leveraging contextual knowledge from LLMs including **GPT-4o**, **LLAMA**, and **Gemini** to generate pseudo labels and adapt **CLIP** for remote sensing context.

Optimizing Direct Mail Fundraising

- Engineered a pipeline to optimize direct mail fundraising using **8,000+** data entries with **18** features, including donation history, demographics, and neighborhood statistics.
- Built a classification model to predict donor likelihood (**82% accuracy** and **0.79 AUC-ROC**) and a regression model to forecast donation amount (**RMSE of 14.2**).
- Experimented with **logistic regression**, **decision trees**, **random forests**, and **XGBoost**, selecting optimal models via **grid search** and **cross-validation**.

IoT Temperature Prediction with Dashboard

- Developed an interactive **Node-RED** dashboard on **IBM Cloud**, visualizing 12-month temperature forecasts across **50+ IoT sensor locations**.
- Implemented and compared time series models, including **ARIMA** and **Prophet (Facebook)**, achieving **MSE reduction of 18%** over baseline moving average models.

Visual Analytics with Batch and Streaming Data

- Deployed a hotel website with embedded tracking codes to monitor user behavior, leveraging **Google Analytics** and **Data Studio** to generate **daily traffic and conversion reports**.
- Simulated real-time analytics on **190K+** Uber-Lyft ride records using **Siddhi** and **MySQL**, identifying **peak-hour trends**, **geographic demand clusters**, and **fleet optimization opportunities**.
- Visualized batch and streaming insights in **Tableau** and **Power BI**, enabling data-driven recommendations for **marketing**, **operations**, and **resource allocation** strategies.

Automating Automobile Accident Claim Process [LINK](#)

Bachelors Thesis

- Spearheaded the design and implementation of an ML pipeline to automate the accident claim process, reducing manual handling time by **65%** through end-to-end computer vision and predictive analytics.
- Built a multi-stage pipeline integrating **vehicle make/model classification**, **damage localization via CNNs**, **repair cost estimation using regression models**, and **customer churn prediction** based on tabular and image-based data.

Football Game Outcome Prediction [CODE](#)

- Developed machine learning models to predict FIFA World Cup 2022 match outcomes using **35 player-level attributes**, **13 team statistics**, and **11 historical match features**.
- Scraped and compiled structured data for all **32 national teams** using **BeautifulSoup** and **Selenium**, automating coverage from group stages to the finals.
- Evaluated multiple algorithms including **tree-based classifiers**, **Naive Bayes**, **SVM**, **XGBoost**, and **neural networks**, achieving up to **67% accuracy** on validation sets.

ACHIEVEMENTS

- Led a research team during the Undergraduate Research Internship Program (UGRIP) at MBZUAI, which won the prestigious **Best Team Award** for outstanding innovation and collaboration.
- Earned a competitive **fully-funded Master's scholarship** at MBZUAI, awarded for demonstrated academic excellence, leadership, and strong research potential in Artificial Intelligence.
- Consistently ranked among the top performers and featured on the **SLIIT Dean's List** for six consecutive semesters.

PUBLICATIONS

For a complete list of my publications, please visit my [Google Scholar profile](#).

REFERENCES

Available on request