Muhammed Imran

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GitHub | Kaggle | LinkedIn

EDUCATION

Institute of Business Administration (IBA) – Karachi	MS Data Science	Aug 2022 – PRESENT
	BS Economics	Aug 2018 – June 2022

Related Experiences

Explainable AI (EAI), Machine Learning Methods, Data Science, Research Methods

WORK/INTERNSHIPS

Instructor (Research) at Aga Khan University Pakistan   Oct 2022 – PRESENT
• The Early Career Research Accelerator –B (ECRA-B) in NCD & Health Data Scientist.
• Develop and execute surveillance or implementation research projects focusing on
  NCDs or their risk factors leveraging data science methods.

Intern at The Citizen Foundation   Jun 2019 – Aug 2019
• Prepared 200 students for university admission tests.
• Provided career guidance to100+ students of TCF.
• Helped students filling their admission applications.

Research Enumerator at State Bank of Pakistan   Apr 2019 – Apr 2019
• Interacted with 50+ individuals daily on phone calls for three days.
• Recorded the responses of individuals on questionnaire sheets.
• Analyzed the public opinion regarding potential economic activities of the country.

PROJECTS/RESEARCH WORKS

Explainable AI (EAI) for Cancer Dataset (May 2023): Trained and tested multiple classification models and an Ensemble Model on Cancer Dataset. Analyzed the important features from the Dataset using Explainable AI (EAI) methods.
Big Data Sentiment Analysis of Tweets – Dockerized Application (Jun 2023): Designed a big data pipeline for data ingestion, storage, preprocessing, and exploratory analysis of tweets from twitter, showing the twitteress sentiments.

Determinants of Food Price (May 2022): A thorough research on macroeconomic factors such as money supply, food imports & exports, crude oil prices, and GDP per capita, driving the food prices in Pakistan.

Machine Learning Methods (Nov 2021): Took the data of 193 countries for Health and economic parameters such as HIV, infant mortality, Education, health index et cetera and trained multiple machine learning models such as Lasso regression, Neural Networks, Support Vector Machine to predict the 'Life Expectancy'. Analyzed the data to take insights from it.

SKILLS

• Data Analysis and Visualization: R, Python, Power BI
• Machine Learning: Regression, Classification, Clustering, Neural Networks
• Statistical Analysis: Hypothesis Testing, ANOVA
• Data Preprocessing: Data Cleaning, Feature Engineering, Dimensionality Reduction
• Tools: SQL, Hadoop, Apache Hive, Apache Spark, Docker, Jupyter Notebook, Pandas, Scikit-Learn
• Communication: Data Visualization, Technical Writing, Presentation Skill

HONORS & AWARDS

• Health Data Science, Fogarty Fellowship (NIH), Aga Khan University Pakistan
• National Talent Hunt Program Scholarship at IBA Karachi
• Prime Minister's Scholarship for Talented students of Baluchistan

WORKSHOPS & COURSES

• Biological Data Science Summer Workshop – The University of Chicago, Rowan University, Drexel University
• AI for Medicine Specialization – DeepLearning.AI | Coursera
• Leveraging AI in Healthcare Research Workshop – Aga Khan University Dept. of Medicine| Sep 2023
• Nuts & Bolts of Research Administration – Aga Khan University Dept. of Medicine| Aug 2023
• Implementation Science Training – University of York | May 2023
• Pitching Research Matters – Bond University | Jun 2023
• Foundation of Qualitative Research – CME Aga Khan University | July 2023
• AKUPI NCDs Research Symposium: Landscape of Research in Pakistan – Aga Khan University| Dec 2022
• Vaccinology in Developing Countries – Aga Khan University| Jan 2023
• Fogarty-AKUPI-NCD Research Certification Courses – Aga Khan University | Nov 2022 – Mar 2023
  - Designing studies in CVD.
  - Research and Data Privacy Ethics.
  - Implementation Research in CVD and Stroke.
  - Basic Data Analysis in NCDs Research.
  - Career Development Program – Workshops.

References: Available upon request.