

TAIMOOR ARIF

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EDUCATION

University of Michigan - Ann Arbor

Ann Arbor, MI, USA

Master of Science in Information - Data Science

August 2022 – April 2024 (Expected)

Graduate Coursework: Introduction to Statistics and Data Analysis, Building Interactive Applications, Contextual Inquiry and Consulting Foundations, Design of Complex Websites.

Lahore University Of Management Sciences

Lahore, Pakistan

Bachelor of Science in Computer Science

September 2017 – May 2021

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Machine Learning, Introduction to Data Science, Artificial Intelligence, Computer Vision, Human Computer Interaction.

PROFESSIONAL EXPERIENCE

Graduate Student Instructor - Applied Machine Learning

August 2022 – Present

University of Michigan - Ann Arbor

Ann Arbor, MI, USA

- Assisting with course content development and review for the machine learning class of **112 students**
- Developing problem sets and labs using Python notebooks and Scikit-learn
- Leading a team of graders to ensure timely grading and feedback for the course

Research Associate

November 2021 - July 2022

Lahore University of Management Sciences

Lahore, Pakistan

- Led the development of an audio storybook application for school children to help improve their Urdu speaking skills. The web app used a ReactJS frontend and a Firestore database. The app is currently being prepared for nationwide deployment in **20 different schools**
- Performed data analysis on survey output measuring digital literacy of low-literate Pakistani population. Applied regression and Random Forest techniques to identify potential **countermeasures against misinformation**
- Performed mixed method coding of audio data collected from **21,000+ users** on a health informatics hotline targeted towards low-literate expectant couples in rural Pakistan. The findings of the analysis were submitted to a top conference

Technical Content Engineer

April 2021 - November 2021

Educative, Inc, Pakistan

Lahore, Pakistan

- Designed and developed **3** interactive courses covering SQL, Machine Learning theory, and Linux terminal tools
- Built front-end widgets and pages for the online platform to improve the user experience
- Reviewed code and technical content for other team members in a team of **100+ developers**

TECHNICAL PROJECTS

Tripaze | ReactJS, Firebase, Heroku

Developed a web-app that served as a tourism marketplace where travel companies could post their upcoming trips and travelers could book and plan their tours. The app was able to **boost the revenue of the client by 25%**

Kahaani: | ReactJS, Firebase, Django, Node.js

Conducted user research and designed an MVP for an audio storytelling platform to teach school children Urdu. The MVP received an **89.3% approval rate** during testing and is currently being readied for large scale deployment

Madadgaar | TypeScript, ReactJS, MongoDB

Implemented a peer-to-peer blood donation system to facilitate blood donation in Pakistan. Integrated SMS APIs into the platform for communication between the platform and the users. The platform was able to connect 10 donors and patients within the first 5 days of launch, including 2 critical cases. The project was funded by LUMS with a grant of **50,000 PKR**

Quantitative analysis of the English Premier League | Pandas, Numpy, Seaborn, Scikit-learn

Conducted exploratory data analysis on and implemented a match predictor for a 20 years data set of the EPL. The techniques included data cleaning, feature engineering, and model training. The project was ranked the **best in a class of 100+ students**

PUBLICATIONS

Mustafa Naseem, Fatima Sohail, Sualeha Farid, Haashim Ali Mirza, **Taimoor Arif**, Sacha St-Onge Ahmad, Agha Ali Raza *Taboo Topics and Misconceptions: Design and Deployment of a Health Hotline for Expectant Fathers in Pakistan*, Submitted to ACM CHI 2023

TECHNICAL SKILLS

Languages and Frameworks: JavaScript, TypeScript, Python, C/C++, SQL (MySQL), Haskell, Golang, ReactJS, Node.js, R

Developer Tools: Git, Amazon Web Services, Google Cloud Platform, Firebase, Heroku, Docker