

Riddhiman Adib, Ph.D.

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- 5+ years of applied experience in Machine Learning & Data Science for healthcare and software development & engineering
- Specializing in Causal Inference, A/B Testing (Experiment design), Electronic Healthcare Data, and Health Informatics.
- 15+ publications and service as a reviewer in 10+ conferences and journals in the Healthcare and Machine Learning domain.

PROFESSIONAL EXPERIENCE

- **Research Engineer** **Jun. 2022–Present**
[Oregon Clinical & Translational Research Institute](#) (Remote) Portland, OR
Responsibilities: Informatics Scholar (Jun 2022–Oct 2023) and Research Engineer (Nov 2023–present)
 - Applied Causal Inference theories with structure learning algorithms (PC, FCI, MMHC) to find underlying structural causal models and calculated causal effects of drug interventions ([AI in Medicine 2023](#)) ([arxiv](#))
 - Introduced hierarchy of causal knowledge for causal graph identification from data and background knowledge ([arxiv](#))
 - Trained & deployed ML models (XGBoost, Logistic Regression, Causal models) for stakeholders' (clinicians) use
- **Summer Intern** **Jun. 2019–Jul. 2019**
[Regenstrief Center for Healthcare Engineering](#) West Lafayette, IN
Responsibilities: Summer internship as a visiting scholar
 - Curated targeted population cohort and relevant covariates from large electronic healthcare dataset using PostgreSQL, resulting in ~1400 Delirium patients from large MIMIC-III EHR on 50k patients ([arxiv](#))
- **Graduate Researcher** **Aug. 2017–May 2022**
[UbiComp Lab, Marquette University](#) Milwaukee, WI
Responsibilities: Research Assistant (2nd-4th year) and Teaching Assistant (1st, 5th year)
 - Machine learning-driven analysis of Twitter text data (happy moments) with natural language processing ([COMPSAC 2019](#))
 - Development of a mHealth App (*myFAMI*) for self-management intervention for family members of pediatric transplant recipients, resulting in a high acceptability of targeted intervention & improved learning by users ([JMIR 2022](#))
 - Development of an electronic peer-mentor support app (*iPeer*) for supporting mental health of Veterans ([COMPSAC 2019](#))
- **Software Engineer** **Oct. 2015–May 2017**
[Harriken.com Limited](#) Dhaka, Bangladesh
Responsibilities: Android Lead (Apr 2016–May 2017) and Software Developer (Oct 2015–Mar 2016)
 - Designed, developed & deployed a restaurant-discovery Android app (*Harriken*) with web APIs for a startup, resulting in a user-friendly interface, real-time location-based recommendations & 10K+ Google Play Store downloads ([Crunchbase](#))

EDUCATION

- **Ph.D. in Computer Science** (Dissertation focus: Causal Inference, Statistics, Math) **Aug. 2017–May 2022**
[Marquette University](#) Milwaukee, WI
- **Masters in Computing** (Specialization: Big Data & Data Analysis) **Aug. 2017–May 2020**
[Marquette University](#) Milwaukee, WI
- **Bachelor of Science in Electrical & Electronics Engineering** **May 2010–Sep. 2015**
[Bangladesh University of Engineering and Technology](#) Dhaka, Bangladesh

SKILLS AND CERTIFICATES

- **Programming Languages:** Python (Most proficient), SQL, R, Java, Matlab, C/C++
- **Frameworks and Tools:** Pandas, Numpy, Scikit-learn, Do-Why, bnlearn, Tensorflow, Keras, PyTorch, Android Framework, Django, Cosmos in Epic, AWS
- **Research Area:** Causal Inference, A/B Testing, Machine Learning, Data Science, Bioinformatics, mHealth
- **Online Certifications:** [Causal Diagrams: Draw Your Assumptions Before Your Conclusions](#), [Neural Networks and Deep Learning](#), [Programming Mobile Applications for Android](#)
- **Soft Skills:** Critical thinking, Fast-learning capabilities, Collaboration experiences, Strong interpersonal skills, Multi-tasking

OPEN SOURCE CONTRIBUTIONS

- **BottomNavBar** (~200 Github stars): Open-source Android library to add a bottom navigation bar to the app
- **FormMaster** (~150 Github stars): Open-source Android library to easily build and use larger forms

LEADERSHIP AND ACCOMPLISHMENTS

- **General Secretary**, BUET Film Society (Oct 2014 - May 2015)
- **Marquette Computer Science Summer Research Fellow** (Summer 2021)