

Riddhiman Adib, Ph.D.

San Francisco Bay Area, CA
Phone: 414-248-XXXX
Email: riddhiman.adib@gmail.com

Personal Website: riddhimanadib.github.io
LinkedIn: linkedin.com/in/riddhimanadib
Github Profile: github.com/riddhimanadib

- 5+ years of applied experience in Machine Learning, Data Science & Software Engineering for healthcare
- 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 Scientist** **Apr. 2024–Present**
[California Department of Public Health](#)
Sacramento, CA
Responsibilities: Research Scientist 3, Data and Analytics Division, Center for Health Care Quality (Apr 2024–present)
 - Generated quality measuring metrics from CMS MDS datasets for skilled nursing facilities and contributed to public-facing data dashboards on quality measures, improving data management pipelines
 - Mentored Interns in learning and exploring data analysis for healthcare quality
- **Research Engineer** **Jun. 2022–Apr. 2024**
[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 to identify causal models for drug efficacy ([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 family members of pediatric transplant recipients ([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, Bash, Linux, Database Cloud Infrastructures
- **Research Area:** Causal Inference, A/B Testing, Predictive models, 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