

# Riddhiman Adib, Ph.D.

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- 6+ years of applied experience in Data Science and Machine Learning for healthcare
- Specializing in Data Science & Analytics, Machine Learning, Causal Inference, Experiment design, and Health Informatics.
- 15+ research publications (with 150+ citations) under the Healthcare and Machine Learning domain.

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## PROFESSIONAL EXPERIENCE

- **Research Scientist** *Apr. 2024–Present*  
[California Department of Public Health](#)  
*Responsibilities:* Research Scientist 3, Data and Analytics Division, Center for Health Care Quality (Apr 2024–present)
  - Trained and deployed **machine learning models** (*regression, decision trees, AutoML*) on CA state licensing and certification data to identify healthcare facilities at risk of non-compliance using the **Azure Databricks** platform
  - Calculated and maintained **CMS**-developed Quality Measures for individual skilled nursing facilities, in **SQL**, supporting stakeholder reporting for the Center for Health Care Quality field offices across California.
  - Performed **record linkage** across state and federal data sources to identify facilities accurately, and led data reporting initiatives to publish validated datasets on the **CalHHS public data portal**.
- **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](#))
- **Summer Intern** *Jun. 2019–Jul. 2019*  
[Regenstrief Center for Healthcare Engineering](#) West Lafayette, IN
  - Curated Delirium population cohort (1.5k~) with covariates from large EHR data (MIMIC-III) using PostgreSQL ([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](#))
  - Developed Android apps for mHealth research (pediatric patients ([JMIR 2022](#)) & Veteran mental health ([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 & 10 K+ Google Play Store downloads ([Crunchbase](#))

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## EDUCATION

- **Ph.D. in Computer Science** (Dissertation focus: Causal Inference, Statistics, Math) *Aug. 2017–May 2022*  
[Marquette University](#) Milwaukee, WI
- **Master's 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

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## SKILLS AND CERTIFICATES

- **Programming Languages:** Python (*Most proficient*), SQL, R, Java, SAS, Matlab, C/C++
- **Frameworks and Tools:** Pandas, Numpy, Scikit-learn, Azure Databricks, Microsoft Azure Services, AWS, Tensorflow, Keras, PyTorch, Android Framework, Django, Bash, Linux, Database Cloud Infrastructures
- **Research Area:** Predictive models, Machine Learning, Data Science, Data Analytics, Health Informatics, Public Health, Artificial Intelligence, Causal Inference, A/B Testing
- **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

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## 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