ABHIK ROY



EDUCATION

2016

Western Michigan University Ph.D. in Program Evaluation

Kalamazoo, MI

2007

Michigan Technological University M.S. in Mathematics

Houghton, MI

2001

West Virginia Wesleyan College B.S. in Mathematics

Buckhannon, WV





PROFESSIONAL EXPERIENCE

Current 2016

Assistant Professor

West Virginia University

- · Advising masters and doctoral level
- Authoring and submitting papers to peer Developing enhanced and interactive reviewed publications.
- Pulling data from multiple remote sources, constructing static, active, and • Evaluating various programs, projects, interactive visualizations for production and/or embedding within reports, and

Morgantown, WV

building Shiny apps and APIs within the R/RStudio environment.

- surveys in Qualtrics using HTML, CSS, & Javascipt.
- and grants.
- Teaching evaluation and methods based classes with a focus on data science.

2016 2014

Data Analyst

University of Kansas

- Created web apps in Shiny and Tableau to pull, summarize, and visualize data from the organization's Oracle database. • Researched and implemented predictive
- Led and presented findings from small and large scale qualitative, quantitative, and mixed-methods studies.

Lawrence, KS

- Prepared evaluation reports for various stakeholders.
- statistical models for student retention and graduation efforts.

CONTACT INFORMATION

abhikrroy@protonmail.com

github.com/drabhikroy

iam.adatasocialscientist.com

+1 304-554-9436

0000-0002-7085-8964

EXPERTISE

Data visualization

Content, cluster, and social network analysis

Modeling using statistics and machine learning

Text mining

Planning and conducting program evaluations

Designing and administering smalland large-scale surveys

Programming and analysis in **Q** with markup using LTEX

App development and dynamic reporting using





SELECT PROJECTS

2022

Mixed Methods Ananlyst & Program Evaluator

Teaching Science with Computational Thinking: Preparing Preservice Elementary Educators of the Future STEM Workforce

West Virginia University

Morgantown, WV • Implementing process and impact evaluations of program activities

- Conducting quantitative text analysis of written and interview data using machine learning
- Constructing and validating survey instruments used to assess progress and effect
- Total Amount: \$294.958.00

2022 | 2017 Data Scientist & Program Evaluator

WVCTSI: West Virginia Clinical and Translational Science Institute

West Virginia University

Morgantown, WV

- \bullet Analyzing large data sets using frequentist and Bayesian methods.
- · Conducting local and multi-site mutli-cluster evaluation studies.
- Developing/validating items and distributing customized Qualtrics surveys built with CSS and Javascript.
- · Pulling, wrangling, and visualizing secondary data in R.
- Mentoring future graduate social data scientists.
- Total Amount: \$20,000,000
- Website: PERC

2020

Program Evaluator

Research Initiative: A Holistic Cross-Disciplinary Project Experience as a Platform to Advance the Professional Formation of Engineers

West Virginia University

Morgantown, WV

- Advising engineering faculty and graduate students on implementation of study methods.
- · Conducting quantitative and qualitative studies on undergraduate student experiences within grant related programs.
- Total Amount: \$200,000

2020 | 2017 Program Evaluator

GAUSSI: Generating, Analyzing, and Understanding Sensory and Sequencing Information: A Trans-Disciplinary Graduate Training Program in Biosensing and Computational Biology

Colorado State University

Fort Collins, CO

- Conducting biannual evaluations of multiple grant related programs.
- Developing and distributing customized Qualtrics surveys built with CSS and Javascript.
- Pulling, wrangling, and visualizing secondary data in R.
- Writing annual program and National Science Foundation reports.
- Total Amount: \$3,013,779

♣ SELECT TALKS

2022

Best of Both Worlds: Affordances of Mixing Machine Learning and Qualitative Content Analysis American Educational Research Association Annual Meeting

San Diego, CA

2020

These Aren't Random Words Just Strung Together?: Using Machine Learning and Pretty Visualizations to Discover Topics in Articles.

American Evaluation Association Annual Conference

virtual

2019

Why Is It That Writers Write but Fingers Don't Fing? Using Machine Learning and Lexemes to Make Sense of Nonsense.
American Evaluation Association Annual Conference
Minneapolis, MN