

Rashmi Ranjan Bhuyan

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WORK EXPERIENCE

SYMPHONYAI | DATA SCIENCE INTERN

Bangalore, INDIA | May 2019 – July 2019

- Worked on a dataset of a million cancer patients, to create a model for ECOG performance status, a nominal variable for cancer patients.
- Built a framework based on topological data analysis (TDA) and implemented it in Python to cluster the patients.
- Created an ensemble model in Python to predict stage (cancer) of the patients using just their vitals.

JOHNS HOPKINS UNIVERSITY | RESEARCH ASSISTANT

Baltimore, MD | May 2018 – July 2018

- Used NHANES datasets from CDC's public database, to model sleep patterns of individuals based on their dietary components and timings
- Found trends of diet over age groups leveraging tools from quantile regression
- Creating an R shiny app, for NIH researchers, to visualize the entire NHANES data.

IMPACT ANALYTICS | DATA SCIENCE INTERN

Bangalore, INDIA | May 2017 - July 2020

- Used Python to create a recommender system for a pet-supplies retail chain which went into A/B testing.
- Worked on another project for a telecom sector client to create a churn prediction model.
- Used SQL extensively throughout the internship to pull data from a central database.

EDUCATION

Doctor of Philosophy, Data Science and Operations (Statistics)

Los Angeles, CA | 2020 - Present

UNIVERSITY OF SOUTHERN CALIFORNIA

Advisor: Dr. Gourab Mukherjee

Topic of Research: Developing novel methods for inference under heterogeneity

- Research work includes developing and writing code for novel methods, conducting simulation studies and application onto real-world data.

Master of Statistics (Theoretical Statistics Specialization)

Kolkata, INDIA | 2018-2020

INDIAN STATISTICAL INSTITUTE, KOLKATA

First Division with Distinction

Bachelor of Statistics (Honours)

Kolkata, INDIA | 2015-2018

INDIAN STATISTICAL INSTITUTE, KOLKATA

First Division with Distinction

SKILLS

Proficient: R, Python, SQL, Excel

Intermediate: C, SageMath, Git, MATLAB

ACHIEVEMENTS

Data Detect Challenge

IEEE INDIA

Ranked 1st in Data Detect challenge organised by IEEE India, Hyderabad in 2017.

- Multiple problems of signal detection on a large noise filled dataset in the domain of physics and chemistry.
- Created innovative statistical models incorporating domain knowledge and was able to achieve accuracy of 81%.
- Participants included students from all premier technology institutes in India.

Summer Undergraduate Research Program

JOHNS HOPKINS UNIVERSITY

One of the two students to be selected for the summer internship program at Department of Biostatistics, Johns Hopkins University, USA, initiated jointly with Indian Statistical Institute.