

Ratnadeep Mitra

Data Scientist

Washington, D.C. • (202) 515-0174 • r_mitra20@outlook.com
linkedin.com/in/ratnadeep-mitra/ • ratnadeepmitra.github.io/

Professional Experience

The World Bank

Sep 2018 - Present

Data Scientist Consultant

- Part of the Development Economics (DEC) Data Group
- Responsible for analyzing international poverty data
- Developed wrapper functions in R for PovcalNet application to abstract complex calculation
- Developed functions using R to get and analyze large volumes of data using UNESCO API

Hanover Research

Jun 2018 - Aug 2018

Research Intern

- Executed extensive data cleaning operation and developed automation scripts in R for 'Survey Automation' project to analyze massive survey data and generate PowerPoint presentation
- Designed Tableau dashboards for 'Growth Monitor' project that are easy to use, professional and client ready
- Created exploratory visualizations with data fetched using Alexa Web Information Services (AWIS) and Webhose API

First American (India) Pvt. Ltd.

Aug 2013 - Jun 2017

Senior Software Engineer

- 1 of 5 employees out of 700+ to win 'Top Performer' award for exceptional performance in 2016 2nd quarter
- Developed SQL Server database to track and analyze employees' competencies to aid team building and hiring process
- Coded web interfaces for mortgage rules compliance and analysis tool using C#, JavaScript, AngularJS
- Designed and developed prototype of a tool using ASP.NET MVC, JavaScript to facilitate cross-selling
- Mentored fresh graduates joining the organization

Course Projects

- **Sarcasm Detection** - Classified randomly collected tweets as sarcastic or not using RNN and LSTM network. Achieved 84% accuracy.
- **Document Summarization** - Summarization of news articles into headlines using Sequence to Sequence (Seq2Seq) model with GRU encoder and GRU decoder. For training, team used articles from 15 American publications.
- **Economy of Sub-Saharan Africa: A Visual Exploration** - Visual exploration of the relationship between Sub-Saharan Africa's economic development and its infrastructure. For creating visuals, team used R, Python, Tableau and Shiny. The visualizations created are featured on QED Group's website.
- **The Relationship between Weather and People's Sentiment** - Investigated the connection between weather and people's sentiment using Python. For analysis, team used reviews from Yelp and weather data to identify interesting patterns. Focused on sentiment analysis, topic modeling, network analysis and unsupervised machine learning.

Other Experience

- **Mentor** for Georgetown Graduate Analytics Program Fall 2018 cohort.
- **Speaker** at Georgetown Graduate Analytics Student Internship Experience Seminar.
- **Database Specialist** for Georgetown Graduate Analytics Program. Designed and developed SQL Server database and user interface for storing admission and course-related data for current students and alumni to increase accessibility to staff members.
- **Graduate Teaching Assistant** for Analytical Data Visualization, Introduction to Information Technology and Advanced Programming Topics.

Education

M.S. in Analytics (Concentration in Data Science)

Aug 2017 - May 2019

Georgetown University

GPA: 3.78 / 4 (as of Summer 2018)

B.Tech. in Electronics and Communication Engineering

Aug 2009 - Jun 2013

West Bengal University of Technology

GPA: 8.36 / 10 (equivalent to 3.76 / 4, as evaluated by WES)

Technical Skills

- Python
- R
- SQL
- Tableau
- Scala
- Apache Spark
- AWS
- C# / Web Development
- HTML / CSS / JavaScript
- Agile Scrum

Certifications

- Data Scientist with R Language (*Simplilearn, July 2016*)
- R Programming (*Coursera, Sep 2014*)
- The Data Scientist's Toolbox (*Coursera, Sep 2014*)
- Oracle Database SQL Certified Expert (*Oracle, July 2013*)