

Ananya Singh

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EDUCATION

Columbia University, School of International and Public Affairs New York, NY

Master of Public Administration (Specialization: Data Science, Finance and Management) **GPA: 3.72/4.0** May 2020

- **Courses:** Data Science in Public Policy, Big Data, Decision Modelling, Machine Learning
- **Teaching Assistant:** Advanced Statistics (Fall 2019 and Spring 2020)

Columbia University New York, NY

MicroMasters, Business Analytics (**Part-time, On-going**) July 2020

- **Courses:** Data, Models and Decisions using Python, Marketing Analytics

University of Delhi, Miranda House New Delhi, India

Bachelor of Arts, Economics and Political Science **GPA: 3.71/4.0** Jun 2017

- **Courses:** Political Economy, International Relations, Public Policy, Development Politics, Economics

PROGRAMMING SKILLS

Languages: Python, SQL, R, STATA, SPSS

Softwares: COGNOS, Power BI, Salesforce, Visio, Excel (VBA), AWS Redshift, EMR, Tableau

EXPERIENCE

- **United Nations Capital Development Fund** New York, NY
Graduate Consultant November 2019 - May 2020
 - Devised a customer-service identification model which helped define the strategy for modifying credit offerings to 6000 women entrepreneurs, small-scale merchants and farmers in South-East Asia.
 - Undertook market research and root cause analysis to develop creative and innovative financial products for Myanmar using Quicksight and PowerBI
 - Achieved a retention rate of 70% for two chief micro-finance institutions (MFIs) in Myanmar.
- **New York City Mayor's Office of Management and Budget** New York, NY
Summer Data Analyst, Financial Reporting Unit Jun 2019 - Aug 2019
 - Developed an expenditure prediction model using Python and Tableau to project the revenue and reimbursement gaps as well as optimization rate for city agencies which improved the previous model's accuracy by 20%.
 - Generated weekly and quarterly reports of expenditure and progress payments for city agencies in NYC using SQL and PowerBI.
 - Built a dashboard for financial workflow analysis using SQL to assess regulatory compliance for improving internal operational efficiency by 15% and deployed it on AWS Lambda.
- **Centre for the Study of Developing Societies** New Delhi, India
Survey Associate Jun 2017 - Aug 2018
 - Conducted statistical analysis using R on surveys having a sample size of 40,000 respondents for clients in India (government ministries, media agencies) on several thematic issues such as labor reform, agricultural sector, youth employment, public health etc.
 - Developed customer insights (trends and variances) and operational performance metrics for stakeholders.
 - Developed a strategy to track client requirements and formulated action plans to drive the growth of our operations in SQL.
- **Watson Institute, Brown University** Providence, RI
Policy Analyst Apr 2017 - Aug 2018
 - Performed statistical analysis of budgetary allocations on community projects database and created a tracking model for goal differentials in India using Python and Tableau.

PROJECTS

- **Fake News Detection and Business Decision Analysis | R, Quicksight**
Using structural topic modeling, analyzed the contents and built a model with an accuracy of 76%.
- **Predictive Algorithms for Workforce Resettlement and Movement | R, Python, Tableau**
Using SageMaker AWS developed multiple regression models with an average R^2 of 85%.
- **Night-Time Light data and Development | Python, Tableau**
Analyzed India Lights dataset to study the impact of a rural electrification policy in India.
- **Cost-Utility Benefit Analysis of Brooklyn-Queens Connector Project for NYC City Agency**
Evaluated the transit benefit cost analysis, Net Present Valuation along with conducting an economic impact sensitivity analysis study using modeling in Excel and R.

AWARDS

- Dean's Policy Innovation Challenge: Developed an AI assisted bot for women banking-users in India.
- Columbia University Merit Fellowship
- Tata Trust Merit Scholarship (Awarded to 0.5% of 10,000 applicants)