

Pranjal Bajaj

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I am a Data Scientist at Boston Consulting Group (BCG) GAMMA, BCG's Data Science Consulting Team. I'm passionate about building tools to uncover solutions in business, public policy and international development through data science and social science research.

Education



Columbia University, New York, United States
MS Data Science

Sep '17 - May '19

- Lead teaching assistant for Applied Machine Learning, a graduate level machine learning class (150+ students) taught by Andreas Mueller, core developer and co-maintainer of *scikit-learn*
- Capstone Project: Automating Comment Summarization (Industry Partner: KPMG Lighthouse)



University of Cambridge, Cambridge, United Kingdom
BA Economics, Law and Environment, First Class Honours

Oct '14 - Jul '17

- Ranked within top 10% of cohort and represented the University Golf Team
- Thesis: Rural Urban Migration in India: A Case study of Nagur, One of India's 100 Smart Cities

Experience



Data Scientist, Boston Consulting Group (BCG) GAMMA
New York City, United States

Jul '19 - Present

- Developed and productionized models to optimize vaccine provider networks to improve geographic reach and utilization of COVID-19 vaccines for government clients.
- Built an AB testing and measurement tool for a retail client to evaluate the impact of a proposed markdown strategy at the store level
- Productionized an epidemiological model to forecast the spread of Covid-19 in PySTAN
- Developed a time series model that generates a forecast of customer incidents over time to organize downstream staffing, scheduling and finance functions for a large technology company.



Summer Data Scientist, Dalberg Data Insights,
New York City, United States

June '19 - July '19

- Built an interactive dashboard for an East African public sector client to explore employment and investment across various sectors, regions and time.



Data Science for Social Good Summer Fellow, University of Chicago's Data
Science for Social Good Summer Fellowship, Lisbon, Portugal

May '18 - Aug '18

- Developed a [predictive model](#) for the Portuguese Government to identify individuals at a high risk of becoming long-term unemployed (>12 months) to better help these individuals
- The project culminated in a [paper](#) that was accepted for Neural Information Processing Systems (NeurIPS) AI for Social Good Workshop, Montreal, Canada (2018).

Select School Projects

Bayesian Statistics: *Ideal Point Models with Twitter data*

- Built an ideal point model to gauge the political position of twitter users following politicians

Data Visualization: *Foreign Direct Investment (FDI): A Global Snapshot*

- Visualised the Flow Network of FDI and its relationship with corruption on an RShiny App.

Skills

Tools: Python, R, Spark, SQL, STAN & Tableau

Expertise: Data Engineering, Machine learning best practices, Bayesian Modelling, Deep learning

Industry Expertise

- Social Impact, Healthcare, People and Organization and Technology

Academic Interests

- Economics, Bayesian Statistics, Global Development

Awards and Achievements

2018: Acceptance into Neural Information Processing Systems (NeurIPS) AI for Social Good Workshop: Paper entitled *Predicting, explaining, and understanding risk of long-term unemployment*, based on the work done at Data Science for Social Good Fellowship was accepted at NeurIPS 2018

2018: Shortlisted for AtoS IT Challenge: Mobile Application chatbot that connects users to healthcare providers covered by their insurance: Selected in the top 20 teams among over 200 international participants

2017: David Thompson Prize: Awarded to students achieving a **First Class Degree** at the University of Cambridge

2016: Hawks' Charitable Trust Award for Varsity Golf, Hawks' Club, Cambridge: Awarded to sportsmen with exceptional academic credentials