

VANSH GUPTA

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Innovation ♦ Urban ♦ Development ♦ Strategy ♦ Education ♦ Healthcare IO

EDUCATION

Cornell University

B.S. in Biometry and Statistics 2023

Ann S. Bowers College of Computing and Information Science **GPA: 3.95**

Concentrations: Mathematical Statistics; Computational Statistics & Data Management

B.S. in Applied Economics and Management 2023

Charles H. Dyson School of Applied Economics and Management **GPA: 3.92**

Research Honors (Distinction) in Social Science

Dyson Diversity Scholar

Relevant Coursework

Mathematics: Real Analysis (A), Honors Introduction to Analysis (A+)

Statistics: Theory of Statistics, Advanced Biological Statistics, Probability & Statistical Inference

Economics: Econometrics, Microeconomics, Macroeconomics, Strategy, Finance

Computing: Statistical Computing, Object-Oriented Programming & Data Structures, MATLAB

Simulation: Risk Simulation & Monte Carlo Methods, Stochastic Processes

Research Experience

- **Research Assistant, Cornell University**

Spring 2021 - Present

Worked under the guidance of Daniela Scur, co-authoring with Michel Best and Renata Lemos, leading the data collection and processing for State Capacity and Responses to Natural Disasters: Evidence from Brazilian Municipalities.

- Successfully web-scraped 25 million PDF files in Portuguese, and processed them into more accessible .csv files for further analysis.
- Created topic models to classify text data using the LDA algorithm.

- **Dean's Summer Research Fellow, Columbia Business School**

Summer 2022 - Present

Worked under the guidance of Jorge Guzman, co-authoring with Maria Roche and Annamaria Conti for Incentivizing Innovation in Open Source: Evidence from the GitHub Sponsors Program.

- Created data pipelines and authored an open-source R package (STE).
- Worked on projects in Strategy, Entrepreneurship, and Digital Innovation.

- **Data Reproducibility Researcher, American Economic Association**

Summer 2021

Responsible for reproducing results in manuscripts submitted for review to AEA journals under the AEA Data Editor, Lars Vilhuber.

- Debugged and reproduced code in 30+ manuscripts, and verified the validity of the data.
- Generated reports of the replication process, which were then used to make the review decision for the manuscripts.
- Authored an open-source data utility tool which is used by AEA to upload their reproduction files to Zenodo.

- **Research Assistant, Cornell University**

Spring 2021

Worked under the guidance of Reza Moghimi, studying Twitter sentiment's effects on the financial markets.

- Carried out literature reviews for the paper, studying NLP algorithms to understand which one would be the most effective for our use case.
- Helped in the development of Python code to collect the data and conduct the analysis.

Research Projects

[Project Title 1] – Brief description of the project.

[Project Title 2] – Brief description of the project.

[Project Title 3] – Brief description of the project.

Talks

[Talk Title 1] – Brief description of the talk.

[Talk Title 2] – Brief description of the talk.

[Talk Title 3] – Brief description of the talk.

Teaching

[Course Title 1] – Brief description of the teaching role.

[Course Title 2] – Brief description of the teaching role.

[Course Title 3] – Brief description of the teaching role.

Open-Source Software

- **R Package: STE**

R Package to implement the framework developed in Treatment Effects in Managerial Strategies, using machine learning in a causal inference setup.

- **Python: Upload-To-Zenodo**

Python code to parse directories and upload the code to Zenodo. This is used by the AEA replication team for smoother synchronisation of their files.

Professional Work Experience

- **Charles River Associates (Antitrust & Competition Economics)**

Associate & Data Scientist, June 2023 - Present

- Produce economic analyses evaluating the competitive effects of healthcare mergers in the US, building on research from industrial economics, urban economics, and healthcare economics.
- Author white-papers presented to the U.S. Department of Justice and juries to discuss the efficacy of legal frameworks that govern antitrust enforcement policies in the US for the healthcare industry.
- Hold a dual role as a data scientist/software engineer as well, creating interactive EXE tools to enable economic analyses with large-scale data with ease.
- Assist with the adoption of cloud computing practices for economic analyses involving big data.

- **Ascenta Management Consulting**

Founder & CEO, August 2019 - May 2023

- Recognized as India’s Top 10 Consultants (CEOInsights Mag).
- Headed teams of volunteer consultants working pro-bono with local Indian Small and Medium Enterprises to improve their operations workflows, cut costs, expand their clientele, and provide effective data-driven marketing strategies.
- Consulted 20+ local businesses using data-backed insights to aid resource mobilization and advance the expansion of revenue streams for the firms – raising revenues for our customers by an average of 28% in a 4-month project period.

- **Cornell Business Analytics**

Vice President, August 2020 - May 2023

- Motivate team-members to ensure the nurturing of innovative ideas and the timely delivery of deliverables.
- Lead a team of 30 analysts to organize the Business Analytics Case Competition at Cornell University.
- Formed a strategic partnership with J.P. Morgan Chase to conduct a semester-long project in Fall 2021 to optimize the firm’s underwriting techniques.
- Coordinate with our clientele (small-to-medium-sized firms) to deliver data analysis projects.

Coding Skills

Scripting Languages: Python, Java, Visual Basic (VBA), JavaScript (Intermediate)

Statistical Analysis: STATA, MATLAB, R

Mapping & Spatial Data: ArcGIS Pro, Google Maps API, Folium/Leaflet (Interactive Maps)

Data Scraping: PDFPlumber, BeautifulSoup, Selenium

Data Management: SQL, GraphQL, Excel, Google Cloud, Microsoft PowerBI (Intermediate)

Data Visualisation: Tableau, Adobe InDesign

Media Coverage

- Recognized as one of India’s Top 10 Business Consultants by CEOInsights Magazine India.
- Research covered in the NBER Bulletin on Entrepreneurship.
- Research covered in the Harvard Business School Working Knowledge Newsletter.