Aryan **Srivastava**

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EDUCATION

Brown University Sept. 2018 – Dec. 2022
B.S. with Honors, Computer Science Providence, Rhode Island

Relevant Experience and Coursework - Undergraduate Teaching Assistant (CS Intro Courses), Cofounder - Brown RISD Innovation Community, Deep Learning, Computer Vision, Statistical Learning, Operating Systems, Creative Nonfiction, Honors Thesis

EXPERIENCE

Development Data Lab June 2023 – Present
Data Scientist Remote

- Led data platform and infrastructure design and development for the Urban Growth Center, DDL's research platform for comparable data on ~10,000 cities, with a focus on low- and middle-income countries — building end-to-end geospatial data pipelines in Postgres/PostGIS, and serving as sole owner and developer of the Svelte and TypeScript front end.
- Designed a novel large language model based data extraction architecture to digitize historical Indian Population Census microdata, producing the first ever digitized version of the 1951 Census and extending the pipeline to the 1961 and 1971 Censuses.
- Designed and developed the interactive digital publication for DDL's research on access to opportunity among Nobel laureates, built as a reusable template for transparent, data-driven research communication across future DDL projects.
- Maintained and developed key organizational systems and products — including SHRUG — as part of the core data team.

Sloman Lab (Cognitive Science) and Brown AI Lab (Computer Science), Brown University Jan. 2021 – Oct. 2021
Joint Research Assistantship Providence, Rhode Island

- Built and managed a 300M+ word news and social media corpus on cluster computing for CogSci 2021 research.
- Developed novel transformer classifiers for clause-level linguistic features, analyzing trends with Loess regression.

Center for Contemporary South Asia and Department of Economics, Brown University Mar. 2021 – May 2023
Undergraduate Research Assistant Providence, Rhode Island

- Built the cleanest dataset yet of geolocated villages and Panchayat candidates in Uttar Pradesh via web scraping.
- Trained multilingual transformers to detect hate speech on Indian social media, powering prize-winning research.

WXY Studio June 2022 – Aug. 2022
Data Science and Planning Intern New York City

- Designed new scoring methods and a faster regression model to guide school rezoning in Hillsborough County, FL.
- Built an internal NLP web tool to accelerate analysis of large-scale engagement surveys for planning decisions.

WRITING

Anecdotes Ushered in Marijuana Legalization: A Machine Learning-aided Big Data Analysis of Reddit Discourse (2008-2019)
Babak Hemmatian, Aryan Srivastava, Nathaniel Goodman, Jonathan Lee, Carsten Eickhoff, Steven A. Sloman
Conference Paper: 2021 Virtual Scientific Meeting of the Research Society on Marijuana
Conference Poster: 43rd Annual Meeting of the Cognitive Science Society

Hate at Scale: Elections, Leader Identity and Hate Speech in Rural Uttar Pradesh
Aryan Srivastava, Aarushi Kalra
Brown University Center for Contemporary South Asia Undergraduate Paper Prize

Rethinking Low-Level Affordances of Social Media Platforms — The Role of Dislikes in Influencing Credibility Judgments of Political Content on YouTube
Aryan Srivastava, Chen Sun, Steven A. Sloman
Honors Thesis in Computer Science

A Dataset of Geolocated Villages and Gram Panchayat Election Candidates in Uttar Pradesh
Aryan Srivastava, Aarushi Kalra, Saket Tiwari