

# Aryan Srivastava

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## Education

### Brown University

Providence, Rhode Island

PURSUING B.S. WITH HONORS, COMPUTER SCIENCE

Sept. 2018 - Dec. 2022

**Relevant Experience and Coursework** - Undergraduate Teaching Assistant (CS Intro Courses), Deep Learning, Computer Vision, Statistical Learning, Big Data, Blockchains and Cryptocurrency, Operating Systems

## Skills

**Machine Learning:** NLP, Classification, Regression, Clustering, Feature Engineering and Model Development

**Data Analytics:** Cleaning, Manipulation, Visualization, Web Scraping

**Programming:** Python, R, SQL, Spark, C/C++, Unix

**Packages:** NumPy, Pandas, scikit-learn, Matplotlib, SpaCy, NLTK, Tensorflow, Node, Django, React

**Tools:** Git, GCP, Jupyter, Colab

## Experience

### Sloman Lab (Cognitive Science) and Brown AI Lab (Computer Science), Brown University

Providence, Rhode Island

JOINT RESEARCH ASSISTANTSHIP

Jan. 2021 - Oct. 2021

- Executed efficient data management of a large natural language corpora (300 million+ words) from news and social media, and extensively used cluster computing.
- Developed state-of-the-art modern transformer based neural networks for classifying clause level linguistic features.
- Performed advanced statistical analyses (Loess regression) to analyze and visualize the results of the neural network classification.

### Center for Contemporary South Asia and Department of Economics, Brown University

Providence, Rhode Island

UNDERGRADUATE RESEARCH ASSISTANT

Mar. 2021 - Present

- Created the cleanest database yet of geolocated villages and Panchayat (village-level) election candidates in Uttar Pradesh - India's most populous state using web-scraping, and Google Maps API.
- Trained transformer based models for multilingual hate-speech detection and other tasks to analyze drivers of polarizing speech on a highly popular national social media platform in India.

### WXY Studio

New York City

DATA SCIENCE AND PLANNING INTERN

June. 2022 - Aug. 2022

- Performed advanced statistical analyses with school and pupil data from Hillsborough County Public Schools, Florida for potential changes to school zone boundaries.
- Designed and implemented new statistical scoring methods and improved the efficiency of a linear regression rezoning model.
- Led the development of a new internal Natural Language Processing web tool to quicken analysis of large-scale engagement surveys to guide effective data driven planning and policy decisions.

### Sheridan Center for Teaching and Learning, Brown University

Providence, Rhode Island

DATA SCIENCE FELLOW

Sept. 2021 - Dec. 2021

- Created data analysis and visualization tools for Early Student Feedback Survey open response data that are now being used by the Sheridan Center for Teaching and Learning.
- My tools reduced analysis time by 50% by analyzing open ended responses using NLP techniques, and enabled surveys of large classes (200+ students).

## 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

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