

# Swati Dontamsetti

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## PROJECTS

### COVID-19 NY Demographic Analysis

May – Jun 9, 2020

- Built a Flask app that represents COVID-19 cases in NY counties with a deep dive into the socio-economic breakdown of each county.
- Utilized VBA and PostgreSQL to clean and join numerous individual data sets.
- Created a Mongo database to hold the cleaned dataset that would populate the HTML webpage.
- Utilized Mapbox API, Leaflet.js, and Chart.js to visualize the analysis.

### COVID-19 Job Market Analysis

Apr 2020

- Built a Flask app to visualize and analyze COVID-19 cases and the US job market for data science.
- Utilized Beautiful Soup, the Pandas library, and Python to scrape and clean data from Indeed.com.
- Loaded the data into a Mongo Database to populate the HTML webpage.
- Utilized the Bootstrap Library to beautify the webpage.

### Hawaii Climate Analysis

Apr 2020

- Designed SQL queries using SQLAlchemy to visualize climate data from Hawaii's weather stations.
- Built a Flask app with routes to different climate data queries from the SQL database, visualized as JSON lists.

## SKILLS

**Programming:** Proficient in Python, VBA, HTML-CSS-JavaScript; familiar with R

**Tools:** Proficient in Microsoft Excel, Jupyter Notebook, PostgreSQL; familiar with Tableau

**Libraries:** Proficient in Pandas, MySQL, Beautiful Soup, MongoDB; familiar with D3.js, Leaflet.js

## PUBLICATIONS

Dontamsetti, Swati. "Queering the English Canon."  
The New Jersey English Journal. Spring  
2017. Web. <[link](#)>.

Dontamsetti, Swati. "Letter from Swati  
Dontamsetti." TAPinto. Edison Democrats  
2015, 2 Nov. 2015. Web. <[link](#)>.

## WORK EXPERIENCE

### **Language Arts Teacher, Soehl Middle School, Linden, NJ**

Sep 2017 – Nov 2019

- Effectively managed multiple classrooms of 25+ students; created, differentiated, and taught lesson plans that are in line with statewide curriculum objectives and student testing data.
- Assessed and monitored 80+ students' progress throughout the year by working cross-collaboratively with team teachers to design lesson plans on a student-by-student basis.
- Collaborated with the Literacy Coach to create more focused lessons with the most up-to-date teaching techniques for my students.
- Participated in professional development seminars to continue to improve my practice.

## EDUCATION

### **Rutgers University & Trilogy Education**

Jersey City, NJ

Certificate in Data Science

Jul 2020

Skills: Advanced Excel, Fundamental Statistics, Python Programming, Databases, Front-End Web Visualization

### **Rutgers, The State University of New Jersey**

New Brunswick, NJ

Master of Education in English-Language Arts; Summa Cum Laude

May 2017

Bachelor of Arts in English, Minor in Women's and Gender Studies

May 2016

Accolades: Sigma Tau Delta Honor Society, Dean's List Fall 2014 – Spring 2016