M.S. in Applied Data Science  
**Project Portfolio**

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# Portfolio Contents

## 1 Résumé

## 2 Program Reflection

## 3 Course Deliverables

### IST 652 – Scripting for Data Analysis

Presentation (Understanding the Electorate).pptx

Program (Understanding the Electorate).ipynb

Report (Understanding the Electorate).docx

### IST 659 – Data Administration Concepts and Database Management

Code and Data (Bird Boxes Database)

Birds Create Views.sql

Birds Data Load.sql

Birds Data Maintenance and Stored Procedures.sql

Birds Import Table Data.xlsx

Birds Table Creation.sql

Birds TEST Cases.sql

Report (Bird Boxes Database).docx

### IST 664 – Natural Language Processing

Code and Data (Language Classification - Hate Speech Detection)

hatebase.csv

HatebaseQuery.py

HateSpeechClassifier.py

Report (Language Classification - Hate Speech Detection).docx

### IST 687 – Introduction to Data Science

Code and Data (California Protected Land Analysis)

Centers.csv

Party.csv

Protected Land Areas of CA.R

Protected Land.csv

Voting.csv

Presentation (California Protected Land Analysis).pptx

Report (California Protected Land Analysis).docx

### IST 707 – Data Analytics

Presentation (Predicting voting behavior for a generic ballot).pptx

Program (Predicting voting behavior for a generic ballot).R

Report (Predicting voting behavior for a generic ballot).docx

### IST 718 – Big Data Analytics

Presentation (Social Desirability Bias and Voter Lie Detection).pdf

Presentation with Script (Social Desirability Bias and Voter Lie Detection).pptx

Program (Social Desirability Bias and Voter Lie Detection).ipynb

### IST 719 – Information Visualization

Data

Results2016.csv

State Encoding.csv

VOTER\_Survey\_Jan.csv

Poster (The American Electorate).pdf

Program (The American Electorate).R

### IST 736 – Text Mining

Code and Data (Whose Hats)

1extract\_candidate\_tweets.py

1extract\_noncandidate\_tweets.py

2transform\_tweets.py

3Explore.ipynb

4Modeling\_DataApproach\_1.py

4Modeling\_DataApproach\_2.py

Modeling Code.ipynb

People.xlsx

Presentation (Whose Hats).pptx

Report (Whose Hats).docx

### MAR 653 – Marketing Analytics

Code and Data (2020 Voter Turnout Strategy)

Clustering.xlsx

Likely Voter Models.R

Project Analysis.xlsx

Vote Choice Models.R

Presentation (2020 Voter Turnout Strategy)

### PAI 897 – Fundamentals of Policy Analysis

Presentation (Increasing Access to Gifted Education Programs for Underrepresented Students in Virginia).pptx

Report (Increasing Access to Gifted Education Programs for Underrepresented Students in Virginia).docx

## 4 Video Summary