

DAT 530 Advanced Statistical Methods

Project Review: Week 5

Reviewer: Brandon Hosley

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Project Title:

Bluebonnet Data

Author(s):

David Zask, Chase Rendall, and Devin Fagan

Source:

NYC Data Academy

The Problem the Author(s) is Trying to Solve in the Project:

The authors intend to provide recommendations to Bluebonnet, an organization dedicated to bring data scientist to work with Democratic party campaigns in smaller elections. The authors recommend a model for determining the contestability of a political district, which may provide a better return on campaign investments.

Machine Learning (ML) Algorithm(s) used:

- Principle Component Analysis
- K-Means Clustering

A Brief Description of One of the ML Algorithms used:

Metrics Used to Evaluate the ML Algorithms:

The authors offer the results of a confusion matrix. Additionally, they suggest that uncontested districts that were predicted to vote in contrast to their actual results may be strong options for recruiting new candidates.