

Project Topic: Trends in Admissions Characteristics of Universities from 2014-2023

Target Audience: 2nd-year UVA student

Goal Statement: The student will produce a **final analysis report** based on a validated logit regression model capable of predicting the use of admissions criteria with an **AUC > 0.75** and identifying up to **three admissions criteria** that exhibit statistically significant ($p < 0.05$) shifts in influence following the COVID-19 pandemic, if they exist. From this, the students should be able to properly identify which admissions criteria have shifted because of the Covid-19 pandemic at universities in the United States.

Spec Category	Task	Criteria for "Meets Spec"
I. Project Goal	The student will replicate the key preprocessing, modeling, and evaluation steps outlined in the case study's technical documentation to determine if admissions criteria importance shifted post-2020.	The student has successfully completed the full analysis pipeline, including data merging, cleaning, feature engineering, and logit regression analysis.
II. Data & Preprocessing	The student must merge the yearly IPEDS ADM and HD files (2014-2023). They must clean the data, handle missing values, and engineer the PostCOVID binary feature (1 for 2020 and later, 0 otherwise).	<ul style="list-style-type: none">* Data is successfully merged and cleaned according to the provided script.* The PostCOVID feature and binary criterion indicators are correctly engineered.* The unit of analysis is correctly maintained as the institution-year.
III. Modeling & Analysis	The student will run a series of logit regression models for various admissions criteria (e.g., SAT, GPA, Essay) as the dependent variable. They must include institutional characteristics (CONTROL, REGION) and the PostCOVID variable as key independent variables.	<ul style="list-style-type: none">* Logit regression models are correctly estimated with clustered standard errors at the institutional level.* Coefficients for the PostCOVID variable are correctly interpreted in terms of odds or probability shifts.* Statistical significance is evaluated using a 5% level (alpha = 0.05).
IV. Evaluation & Presentation	The student must evaluate the models using AUC and report the pseudo-R ² . They must create at least one time-series	<ul style="list-style-type: none">* The final model has a reported AUC.

	plot and a coefficient plot to visualize the trends and the post-COVID effects.	<p>* At least one admissions criterion with a statistically significant shift ($p < 0.05$) post-COVID is identified, if one exists.</p> <p>* High-quality visualizations clearly illustrate the shift in admissions criteria importance over the 2014–2023 period.</p>
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