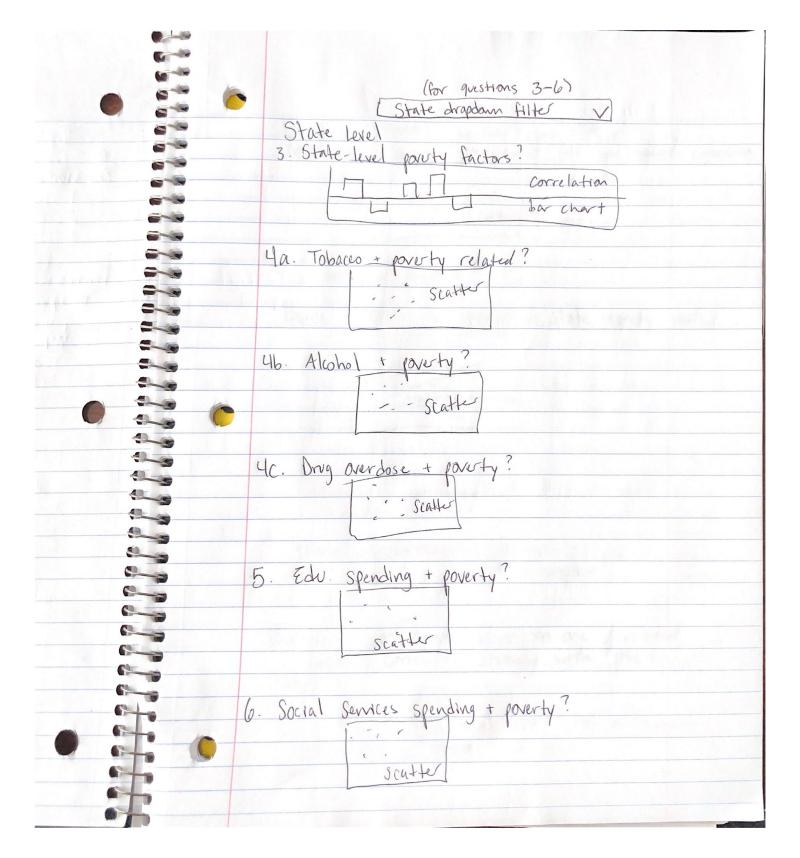
Dashboard Napkin Drawing Sidebar Financial Services Group 1 Cap Stone By: Shanan. Beth, Jerad, Joel ·Questions money /finance Figures > Parety vs. Vrenzbyment Investigating Pourty Rates in U.S. Federal Leve Question I. How has U.S. parety level Changed ...? line. 20. Relationship between poverty + fed spending? line 26. Relationship poverty and inflation? lene 2c. Relationship powerty and party? correlation matrix



From ar questions, we didn't see a lot of correlation. However, unemployment rates had moderate correlation · Scatter 7. can we predict? Using Lasso, we predicted state poverty levels: Scatter + trendling scatter residuals Model performance: insample = out of sample = Poverty is a complex issue; no one of related factor correlates strongly with poverty rates. Please See ar technical report for a thorough discussion of these results.

## Group 1 Visualizations' Napkin Drawings Feedback

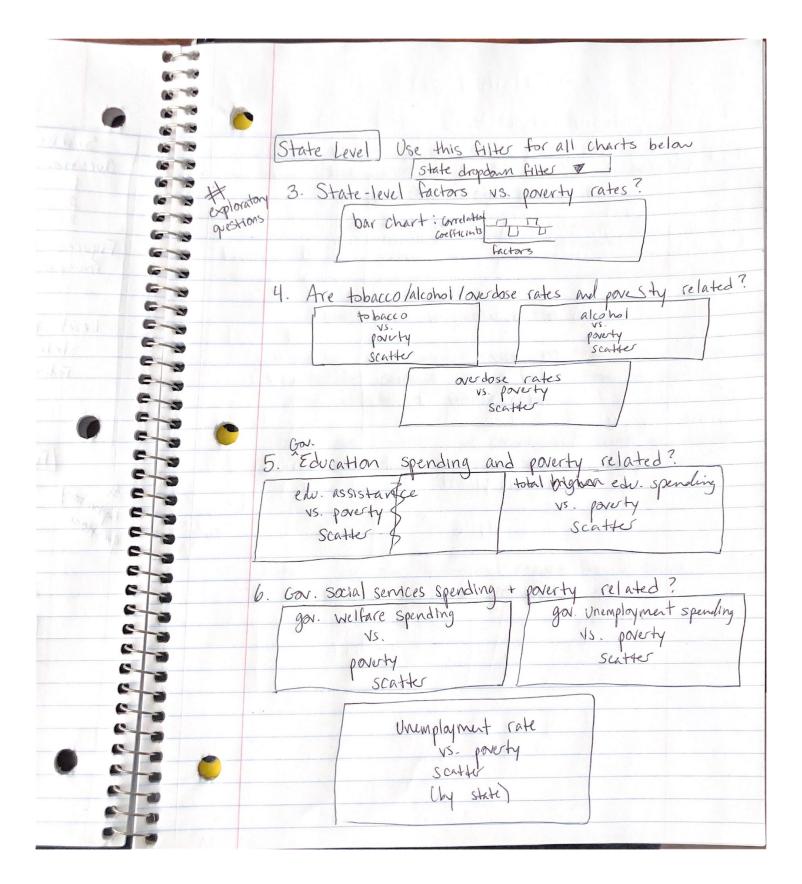
We met with Group 2 (Adam Brewer, Nolan Thomas, Stephanie Leiva, and Emily Atkinson) to receive feedback on our first draft of the dashboard napkin drawing.

## Group 2 suggested that we:

- Reformat our figures so that related figures were side by side rather than below
- Add a brief explanation blurb at the beginning of our Dashboard to explain our purpose,
   data sources, year range, and target audience
- List the most weighted factors that Lasso machine learning model used
- Add a list of next step recommendations at the end of our dashboard
- Change the state factors relating to poverty vs. poverty bar chart so that correlation coefficients were all positive (absolute value)

We followed most of these suggestions. We changed the Dash format to place related figures next to each other (we did not realize we could do this initially) rather than on top of each other. We added a brief introduction and conclusion to our dashboard to include some explanations on data sources, target audience, goal, year range, and next step recommendations for government officials (our target audience). Next, we included a space under the Lasso model visuals to list out the most weighted factors Lasso used in its predictions. Finally, we did not change the correlation coefficients using absolute value because we believe there is great value in seeing the coefficients as either positive or negative to realize how they are related to poverty rates (do they improve or heighten poverty).

		(Final draft)
6 5 1	Group	1 Dashboard Napkin Drawing
	Sidebar :	Investigating U.S. Poverty Rates
	2.	1995 - 2020
Fig	ores in	Capstone Project  By: Financial Services Grap 1  Shannon Bayless, Joel Garcia, Jerad Ipsen, Beth Vander
	overly us. Spending	
C Le	evel Do	image of money/finance
	State Fedural	(1-2 sentences)
		Blurb from executive summery: purpose, audience datasets, goal to achieve, years selected
	[Federal Level]	
explorators questions		line graph
	2 Palatiansh	ip: inflation/gov. Spending/party control and poverty rates?
	line graph inflatio	line graph
	•	The state of the s
		party control + poverty  correlation
		matrix



7. Can we predict state poverty rates? Using Lasso (a type of machine learning model), We predicted state poverty levels: predicted vs. actual predicted vs. w/trendline residuals Scatter Model Accuracy: ~ % Myst Highest weighted factors: ~ Poverty is a complex issue: no one related factor correlates strongly as all factors have at least some effect on poverty rates. From our findings, we recommend state governments foirs on these issues to improve povorty rates: Please see ar technical report for a thoraigh discussion of ar results.