

# Capstone — Task list report

## Active Tasks

	Task	Start Date	Due Date	Responsible	Created By	Priority	Progress	Status	Estimated
	<div>Napkin drawings dashboard + post for feedback <div>Blocker</div> <div>To do</div></div> <div>BLOCKER FOR DASHBOARD What we want dashboard to look like (ROUGH sketch; nothing too detailed--we lose points for that)  Post to teams afterwards to get 2 feedback comments (will use to make final draft)</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	<div>ETL Report Introduction &amp; Sources (APA Format) <div>In progress</div></div>			Beth Vander Hoek	Beth Vander Hoek	Medium	0%	(Not started)	1 hour 30 minutes
	<div>Finalized napkin drawing for dashboard</div> <div>Use feedback from Teams chat to make changes as needed to Dashboard napkin drawing. Keep it ROUGH (we lost points if too detailed). Make note if you decided not to use feedback and why</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	<div>Build, Export, &amp; Load ML Model <div>Blocker</div> <div>To do</div></div> <div>BLOCKER FOR BUILDING MODEL IN DASH See exercise/demo in applied kafka folder for help</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
	<div>Edit ETL Report &amp; Write Conclusion (make it perfect :)</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours 10 minutes
	<div>Create napkin drawings for visualizations (1/2--maybe federal level questions) <div>Blocker</div></div> <div>BLOCKER FOR FINAL NAPKIN DRAWING Post in teams for feedback afterwards; need 2 pieces of feedback. KEEP ROUGH (detailed = lose points)</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	<div>Create napkin drawings for visualizations (1/2--state-level questions) <div>Blocker</div></div> <div>BLOCKER FOR FINAL NAPKIN DRAWINGS Post in teams for 2 comments of feedback; coordinate with other visualizations to post at the same time/combine document</div>			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	<div>Refine/hyper-parameter tune ML Model <div>Blocker</div></div>			Anyone	Beth Vander	Medium	0%	(Not started)	3 hours

	BLOCKER FOR FINILIZING THE DASHBOARD Make sure model is at optimal performance: feature engineering, tune hyperparameters, etc.				Hoek				
	Using feedback, create final napkin drawings for ALL visualizations  Use feedback from 2 comments on Teams; make notes as to why not using feedback if so			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	Create ReadMe  ReadMe includes datasets used, links to files in repo, diagram of cloud/data factory, group member names, exploratory questions, how to navigate repo, etc. (see diabetes capstone githib for inspo)			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
	Create Visualizations for State Level Questions using Dash Format <b>Blocker</b>  BLOCKER FOR BUILDING FINAL DASHBOARD Visualizations for state questions (not including ML model, prediction, accuracy). Do in Dash format			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
	Create visualizations for national level questions using Dash format <b>Blocker</b>  BLOCKER FOR BUILDING FINAL DASHBOARD ONLY for national questions, not Model, state questions			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
	Create visualizations for ML model: predictions, accuracy, etc. (dash format if possible) <b>Blocker</b>  BLOCKER FOR BUILDING FINAL DASHBOARD			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	Create Dash Dashboard (copy & paste visualizations codes together), add layout features & auto-update			Anyone	Beth Vander Hoek	High	0%	(Not started)	4 hours
	Presentation Slideshow Intro, Initial Questions, Research Process/EDA slides <b>Blocker</b>  BLOCKER FOR PRESENTATION DRY RUN First half of presentation slideshow			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	Presentation Slides Machine Learning Use/Tuning/Results/Accuracy, Gov. Policy Recommendations, Concluding Slide (Sources) <b>Blocker</b>  BLOCKER FOR PRESENTATION DRY RUN Second half of slideshow presentation			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
	Make sure all code is uploaded to repo (and that code is readable): dash visualizations, databricks, etc.			Dev10	Beth Vander Hoek	High	0%	(Not started)	1 hour
	Presentation Dry Run: Make sure we are in 10 mins range; assign slides to speakers			Dev10	Beth Vander Hoek	High	0%	(Not started)	1 hour
	Technical Report Executive Summary (copy & paste over),			Anyone	Beth	Medium	0%	(Not	2 hours

Introduction, Works Cited Page at end (dataset sources; copy & paste from ETL report)				Vander Hoek			started)	
DONE by Wednesday lunchtime								
Technical Report Research on Federal Questions (Section I)  First Section of technical report; include visualizations (screen shot from dashboard) for answering federal level questions (two questions)			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
Technical Report Research Section II: Explain Machine Learning model, predictions, accuracy, include visualizations; answers questions 3/4 (predict poverty level using factors)			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
Technical Report Research Section III: Answer questions about state (excluding machine learning); include visualizations			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	3 hours
Technical Report: Conclusion, Edit/Review other sections & introduction			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	2 hours
Class Presentation  Presentation for the class!			Anyone	Beth Vander Hoek	High	0%	(Not started)	20 minutes
All project components COMPLETE & PERFECTED <span>Blocker</span>  BLOCKER FOR UPLOADING FINAL COMPONENTS TO GITHUB EOD THURSDAY!!! Project is perfect :)			Anyone	Beth Vander Hoek	High	0%	(Not started)	2 hours
All PDFs, code uploaded to GitHub: presentation slides, final report, dashboard/visualizations code, ERD, napkin drawings & feedback (Dashboard & visualizations), ETL report, ReadMe, Azure Studio Links, data pipeline diagram, exploratory questions <span>Blocker</span>  BLOCKER FOR FINAL README THURSDAY MORNING/WEDNESDAY NIGHT ALL DONE!!			Anyone	Beth Vander Hoek	High	0%	(Not started)	3 hours
Update Repo/ReadMe as needed; make sure everything is uploaded properly  Thursday morning before presentation start			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	1 hour
Final Presentation  Final presentation to class, attendees, Dev10, Genesis10, shareholders, clients			Anyone	Beth Vander Hoek	High	0%	(Not started)	20 minutes
ETL Report Load Section			Anyone	Beth Vander Hoek	Medium	0%	(Not started)	1 hour
ETL Report Extract & transform: cpi <span>To do</span>			Shannon Bayless	Beth Vander Hoek		0%	(Not started)	0
			Jerad Ipsen	Beth		0%	(Not	0

	ETL Report Extract & transform: federal-party-control <div><div></div>In progress</div>				Vander Hoek			started)	
	ETL Report Extract & transform: federal-spending <div><div></div>To do</div>			Jerad Ipsen	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: poverty-rates <div><div></div>In progress</div>			Shannon Bayless	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: state-crime <div><div></div>In progress</div>			Joel Garcia	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: state-finances <div><div></div>To do</div>			Shannon Bayless	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: state-od <div><div></div>To do</div>			Joel Garcia	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: state-party <div><div></div>To do</div>			Beth Vander Hoek	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: state-unemployment <div><div></div>To do</div>			Joel Garcia	Beth Vander Hoek		0%	(Not started)	0
	ETL Report Extract & transform: us-poverty-rates <div><div></div>To do</div>			Shannon Bayless	Beth Vander Hoek		0%	(Not started)	0
									61 hours 20 minutes

## Completed Tasks

	Task	Start Date	Due Date	Responsible	Created By	Priority	Progress	Status	Estimated
	Build Producer and Topic <div><div></div>Completed</div> <p>Build producer and create topic with unique name relevant to dataset producer is sending (i.e. Drug-Overdose, Crime-Rate, etc.). TELL US WHAT TOPIC NAME IS. Producer will send RAW csv data over to consumer under the designated topic name (no cleaning/editing data beforehand)</p>	09/21/2022	09/21/2022	Shannon Bayless	Shannon Bayless	Medium	100%	Completed 09/21/2022 by Shannon Bayless	2 hours
	Create Repository <div><div></div>Completed</div> <p>Create repo for capstone project; update as needed</p>		09/16/2022	Beth Vander Hoek	Beth Vander Hoek		100%	Completed 09/20/2022 by Beth Vander Hoek	10 minutes

	Brainstorm Questions; Search for Datasets; EDA <div><div></div>Completed</div>		09/19/2022	Dev10	Beth Vander Hoek		100%	Completed 09/20/2022 by Beth Vander Hoek	5 hours
	Upload all data sets to azure container <div><div></div>Completed</div>	09/21/2022	09/21/2022	Dev10	Shannon Bayless	High	100%	Completed 09/22/2022 by Jerad Ipsen	30 minutes
	Create ERD <div><div></div>Completed</div>	09/21/2022	09/21/2022	Shannon Bayless	Shannon Bayless	Medium	100%	Completed 09/22/2022 by Jerad Ipsen	2 hours 30 minutes
	Executive Summary - First Draft <div><div></div>Completed</div>	09/20/2022	09/20/2022	Beth Vander Hoek	Shannon Bayless	Medium	100%	Completed 09/20/2022 by Beth Vander Hoek	1 hour
	Napkin drawings data pipeline diagram <div>Blocker</div> <div><div></div>Completed</div> How cloud/data factory flow will look like		09/21/2022	Joel Garcia	Beth Vander Hoek	Medium	100%	Completed 09/21/2022 by Joel Garcia	1 hour 30 minutes
	Finish PMP <div><div></div>Completed</div>	09/20/2022	09/20/2022	Beth Vander Hoek	Shannon Bayless	High	100%	Completed 09/20/2022 by Beth Vander Hoek	2 hours
	Finalize Datasets <div><div></div>Completed</div>	09/20/2022	09/20/2022	Anyone	Shannon Bayless	High	100%	Completed 09/20/2022 by Beth Vander Hoek	2 hours
	Research Best Machine Learning Model for Data <div><div></div>Completed</div> Research which ML model to use for data		09/21/2022	Jerad Ipsen	Beth Vander Hoek		100%	Completed 09/22/2022 by Jerad Ipsen	2 hours
	Create tables in Database based on ERD schema <div><div></div>Completed</div>		09/22/2022	Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	1 hour
	Written Executive Summary (1 paragraph) <div><div></div>Completed</div> Executive summary and list of questions	09/20/2022	09/20/2022	Beth Vander Hoek	Beth Vander Hoek	Medium	100%	Completed 09/20/2022 by Beth Vander Hoek	2 hours
	Build Consumer & Append to SQL database table <div><div></div>Completed</div>		09/23/2022	Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth	2 hours

	Create consumer using same topic name as producer. Receives data messages then sends data to other group container (from one group container to the other). Data needs to eventually end up in SQL							Vander Hoek	
	Exploratory Questions pdf (5-10 finalized questions) <div><div></div>Completed</div>		09/20/2022	Beth Vander Hoek	Beth Vander Hoek	Medium	100%	Completed 09/20/2022 by Beth Vander Hoek	1 hour
	Final data pipeline diagram <div><div></div>Completed</div> Maybe use icons to look pretty like GitHub repo project diabetes example?		09/26/2022	Joel Garcia	Beth Vander Hoek	Medium	100%	Completed 09/23/2022 by Shannon Bayless	3 hours
	Create two group Containers & SQL Database <div><div></div>Completed</div> <div>Blocker</div> Container for producer to pull from, container for consumer to send to, database for eventual data platform		09/20/2022	Shannon Bayless	Beth Vander Hoek	Medium	100%	Completed 09/20/2022 by Beth Vander Hoek	1 hour
	Create Data Factory & Run Producer/Consumer Automated <div><div></div>Completed</div> Use exercise data factory as baseline.		09/26/2022	Beth Vander Hoek	Beth Vander Hoek	Medium	100%	Completed 09/23/2022 by Beth Vander Hoek	1 hour
	Add rest of cleaned data to SQL database (if not through producer/consumer data factory) <div><div></div>Completed</div> Make sure no repeats of data; only if not already added. Keep track of steps to add for ETL (merging, etc.)		09/26/2022	Shannon Bayless	Beth Vander Hoek	Medium	100%	Completed 09/23/2022 by Beth Vander Hoek	3 hours
	Clean & transform dataset: Cpi <div><div></div>Completed</div> <div>Blocker</div>			Shannon Bayless	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: federal-party-control <div><div></div>Completed</div> <div>Blocker</div>			Jerad Ipsen	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: federal-spending <div><div></div>Completed</div> <div>Blocker</div>			Jerad Ipsen	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: cpi <div><div></div>Completed</div> <div>Blocker</div>			Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth	2 hours

								Vander Hoek	
	Clean & transform dataset: poverty-rates <span>Blocker</span> <span>Completed</span>			Shannon Bayless	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: federal-party-control <span>Blocker</span> <span>Completed</span>			Jerad Ipsen	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: state-crime <span>Blocker</span> <span>Completed</span>			Joel Garcia	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: federal-spending <span>Blocker</span> <span>Completed</span>			Jerad Ipsen	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: state-finances <span>Blocker</span> <span>Completed</span>			Shannon Bayless	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	1 hour
	EDA: poverty-rates <span>Blocker</span> <span>Completed</span>			Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: state-od <span>Blocker</span> <span>Completed</span>			Joel Garcia	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: state-crime <span>Blocker</span> <span>Completed</span>			Joel Garcia	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	Clean & transform dataset: state-party-control <span>Blocker</span> <span>Completed</span>			Beth Vander Hoek	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	4 hours
	EDA: state-finances <span>Blocker</span> <span>Completed</span>			Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth	2 hours

								Vander Hoek	
	Clean & transform dataset: state-unemployment <span>Blocker</span> <div><div></div>Completed</div>			Joel Garcia	Beth Vander Hoek	High	100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: state-od <span>Blocker</span> <div><div></div>Completed</div>			Joel Garcia	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: state-party <span>Blocker</span> <div><div></div>Completed</div>			Beth Vander Hoek	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: state-unemployment <span>Blocker</span> <div><div></div>Completed</div>			Joel Garcia	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
	EDA: us-poverty-rates <span>Blocker</span> <div><div></div>Completed</div>			Shannon Bayless	Beth Vander Hoek		100%	Completed 09/23/2022 by Beth Vander Hoek	2 hours
									71 hours 40 minutes