

Income Losses Following Disaster Events

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Executive Summary

This project displays potential income losses for a region within a state, selected by the user on a map. Additional state-wide information on occupation employment numbers and average wages per occupation are also provided.

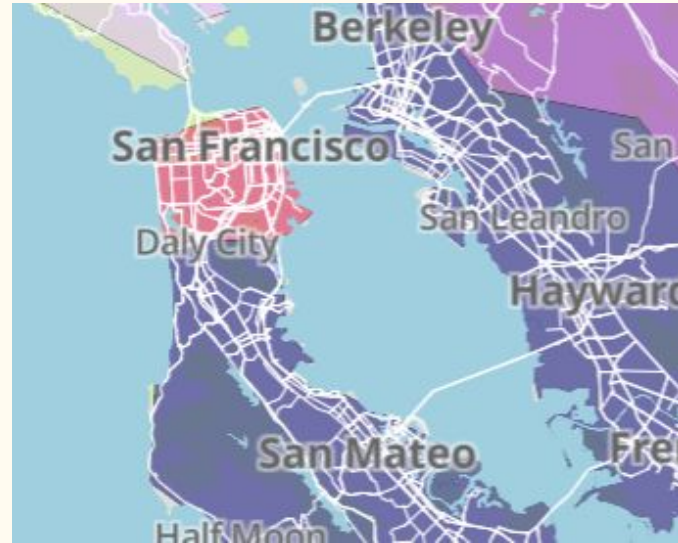
Client Request:

Using Indeed or Glassdoor platforms together with number and type of affected businesses to estimate the expected economic loss (wages) due to a disaster.

Problem Approach

1. Request from the client reviewed and plan created.
2. Data sources identified, evaluated, cleaned, organized.
3. Summary statistics created.
4. Visualization and dashboard created.

Example Use - California



Selected only a small area
around San Francisco

Example Use - California

Affected ZIP Codes	Yearly Estimated Income Risk	Population	City	County
94002	2277900	27116	BELMONT	San Mateo
94005	366968	4568	BRISBANE	San Mateo
94010	7543996	42569	BURLINGAME	San Mateo
94014	1453421	48387	DALY CITY	San Francisco
94014	1453421	48387	DALY CITY	San Mateo
94015	2231711	64712	DALY CITY	San Mateo
94019	1154763	19874	HALF MOON BAY	San Mateo
94020	104198	1170	LA HONDA	San Mateo
94020	104198	1170	LA HONDA	Santa Clara
94021	9759	159	LOMA MAR	San Mateo
94022	5507330	19705	LOS ALTOS	Santa Clara

Example Use - California

Occupation	Total Employment	Portion	Average Hourly Rate	Average Annual Salary	10th Percentile	25th Percentile	Median	75th Percentile	90th Percentile
All	16695010	1000	27.5	57190	22490	26430	40980	70360	113250
Managemen	942620	56.4610000	63.57	132220	51060	75020	115350	166370	#
Business and Financial Operations	978370	58.602	40.14	83500	40850	55110	73930	100030	134100
Computer and Mathematical	590550	35.3730000	50.66	105380	50760	71490	100480	132880	164430
Architecture	331740	19.871	47.87	99580	51400	68180	94520	125620	157930

Future Improvements

1. Online web interface - Flask and dash
2. Multi-state functionality
3. Printing data - Image of area affected, summary stats to CSV

Next: Live demo