Contextualizing Employee Turnover

The Data Incubator capstone proposal Alex Armstrong May 25, 2021

Why look at turnover?

47% of HR
 professionals listed
 turnover as their top
 challenge (SHRM
 2018)

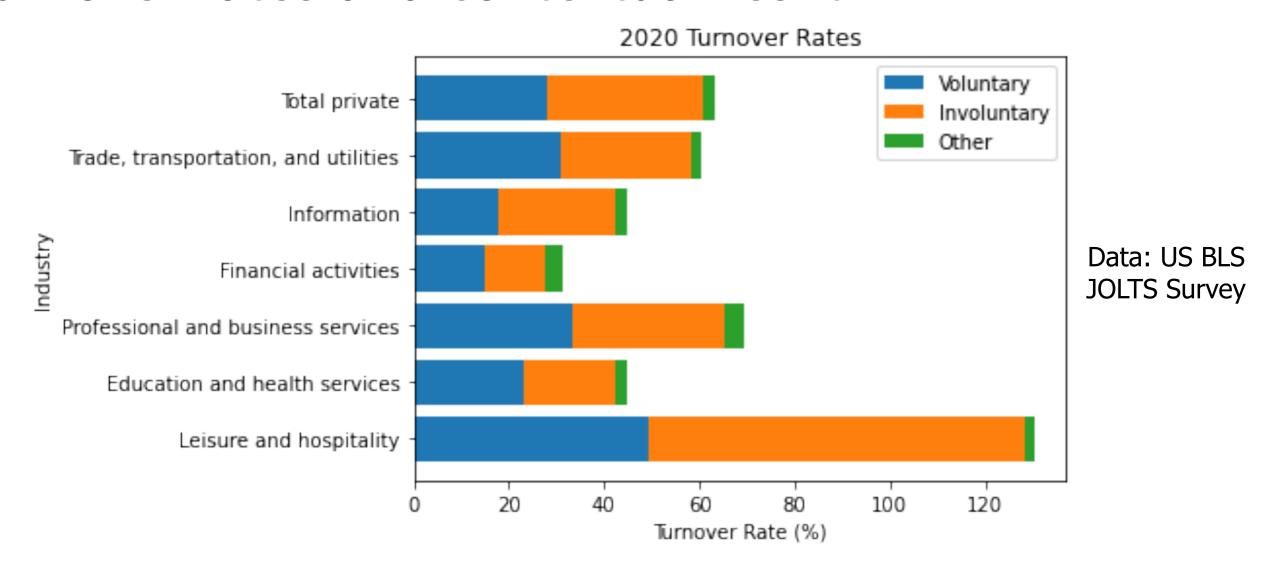
 Explanations and justifications of measuring turnover are all over the internet



Image: Vlacheslav Iakobchuk - stock.adobe.com

Simple Starter Solution

 Proposal: A web app that calculates your companies turnover rates and contextualizes it

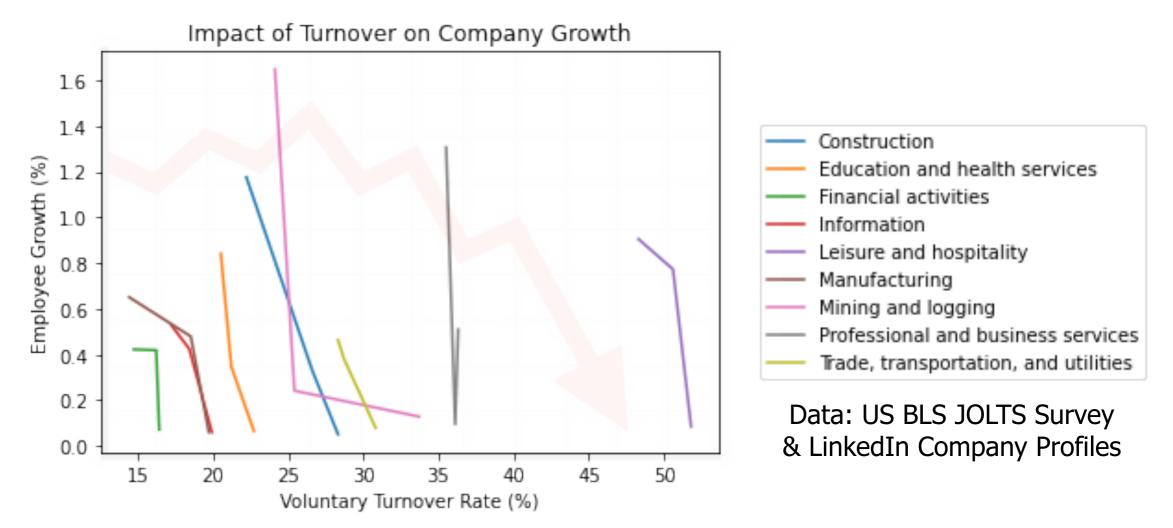


 Is it worth spending money on expensive analytics packages and consulting services?

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Low hanging fruit

 Compare turnover rates with various company health metrics to focus turnover mitigation strategies



Company growth may be hurt by high turnover rates

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Appendix

Processed Data

JOLTS Survey Data

Seasonal	Industry	State	Area	Size Class	Data Element	Rate/Level	Date	year	period	value
U	710000	00	00000	00	TS	L	2000-12-01	2000	M12	99.0
S	230000	00	00000	00	OS	L	2016-01-01	2016	M01	13.0
S	100000	00	00000	05	LD	L	2009-09-01	2009	M09	82.0
U	420000	00	00000	00	JO	R	2013-04-01	2013	M04	2.5
S	620000	00	00000	00	OS	L	2019-02-01	2019	M02	44.0

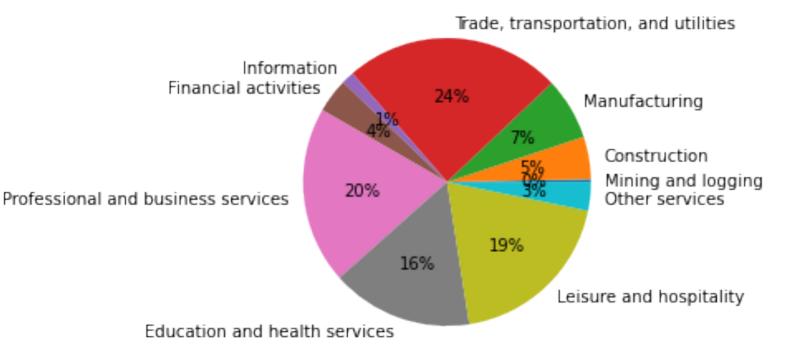
LinkedIn Company Profile Data

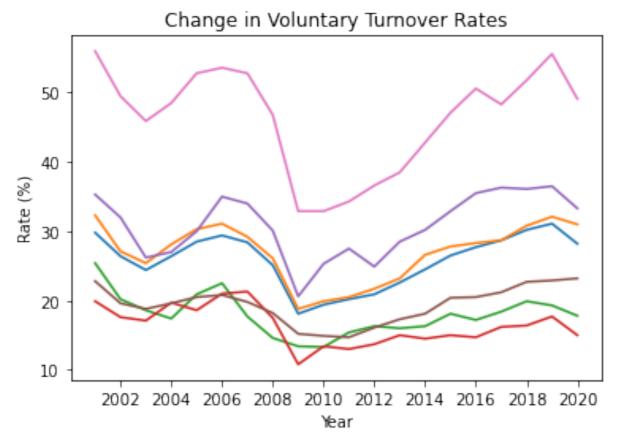
	bls_industry	year	n_employees	company_growth	company_growth_perc	turnover
	Construction	2016	299532	161861.0	1.175709	22.2
	Construction	2017	397558	98026.0	0.327264	26.6
	Construction	2018	417700	20142.0	0.050664	28.3
Education and health services		2016	714999	326671.0	0.841224	20.5
Education and health services		2017	962445	247446.0	0.346079	21.2
Education	and health services	2018	1024910	62465.0	0.064902	22.7
	Financial activities	2016	3287991	975651.0	0.421932	14.7

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JOLTS Survey EDA

Composition of 2020 Voluntary Turnover Levels in Private Sector Industries





Total private
 Trade, transportation, and utilities
 Information
 Financial activities
 Professional and business services
 Education and health services
 Leisure and hospitality