

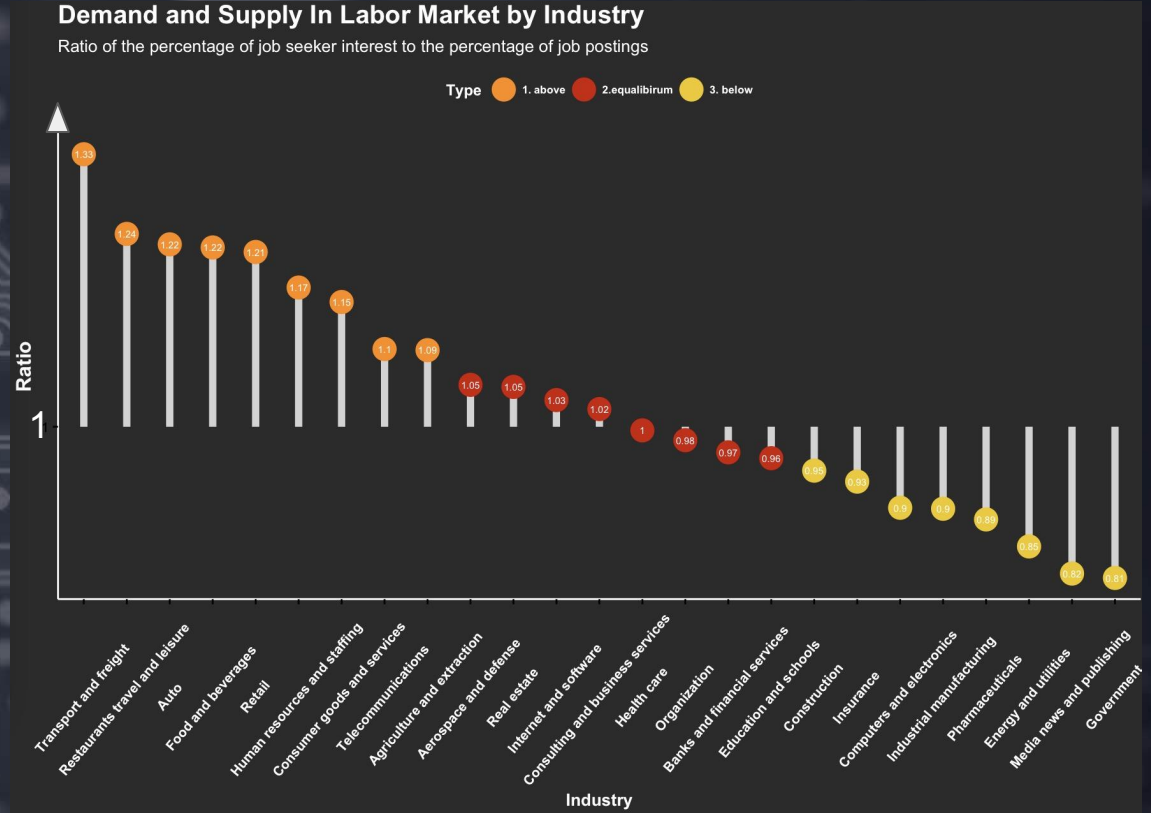
The Secret of Job Hunting

TEAM UMVUE

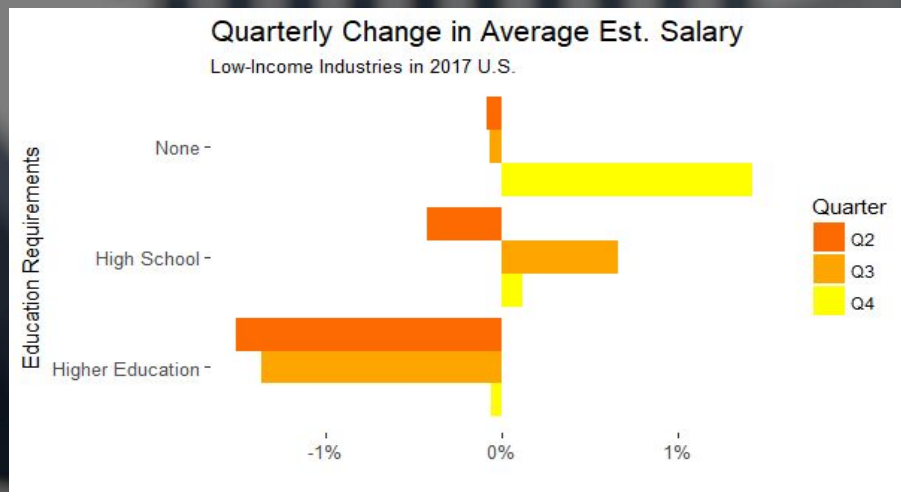
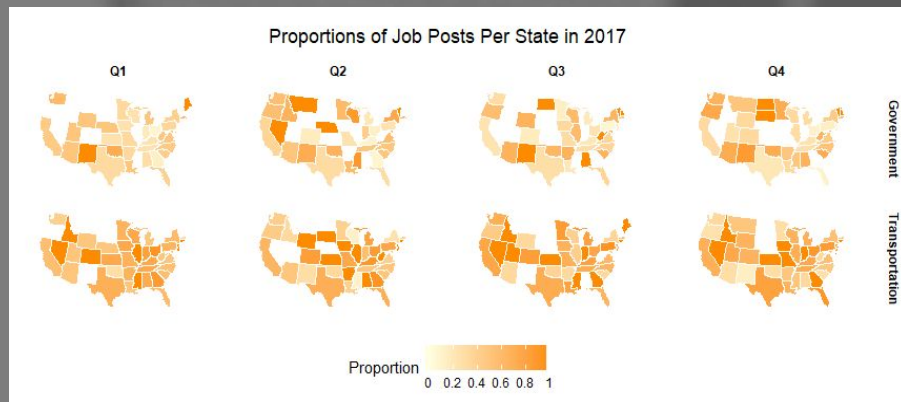
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Ranking the Industries - Prediction

- Prediction of the Industry a company belongs to
- Analyzing a training set to get the pattern of the jobs offered by companies from different industries
- Bayesian approach to estimate likelihood of a company belonging to an industry
- Completing other missing values for companies with existing Industry record
- Overall accuracy of ~50% using cross validation VS. random guess of ~4%



Temporal Patterns - Further Investigation



- Further investigation of temporal job posting patterns
- According to 2017 reports by BLS and other external resources, 2017 was a “better-than-usual year for low-wage workers”
 - Low-income cut-off = 80% of median estimated salary (standards derived from information on Vox and U.S. Department of Housing and Urban Development)
- Given results obtained from our Bayesian model, we further examined the temporal patterns for industries Government (highest ratio) and Transportation (lowest ratio)