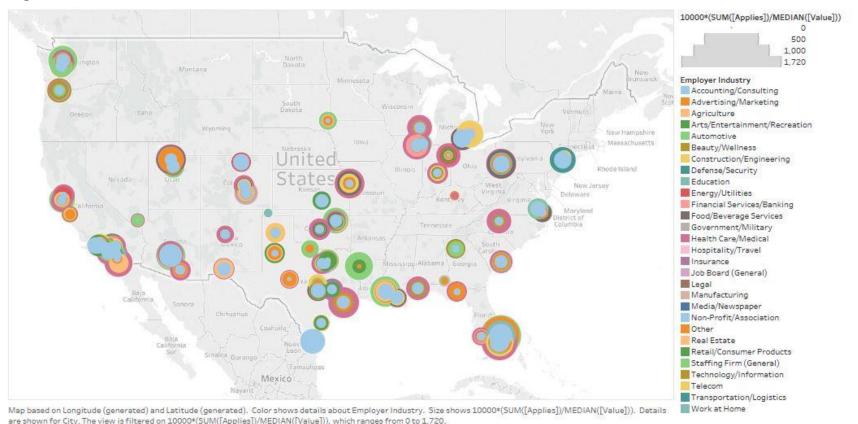


### **Mapping Industry Patterns**

### Using U.S. Census Information and Indeed Data Set: GIF



# **Predict Overall Company Rating**

with 75% Confidence

#### **Machine Learning Pipeline**

Using a neural network, we are able to predict a company rating, and, by extension, a post rating using the other job posting data.

### Input

- employeeJobCount
- employeeCount
- descriptionLengthChars
- licenseRequiredJob
- noEducationRequirementsJob
- highschoolEducationRequirementsJob
- higherEducationRequirementsJob
- supervisingJob
- jobAgeDays
- city

#### **Process**

- Neural Network takes in numerical data
- Trained on 90% of the data
- Tested on 10% of the data

#### **Output**

 Estimate of overall company rating

# **Impact**

- Predicting company rating
  - Given post characteristics
- Mapping industries and company sizes
  - Discovered industry hotspots by type and company size
- Using NN as function
  - Can optimize post characteristics
  - To approach target company rating
- Bottomline: Tool to rate job posting before submission