

Modelling Federal Open Market Committee Decisions Using ML and NLP

Jeremy Lao & John Reynolds

Department of Computer Science
Courant Institute of Mathematical Sciences, NYU

Date



NEW YORK UNIVERSITY

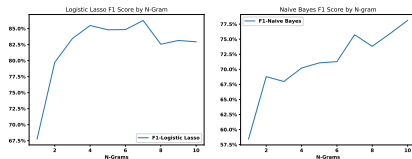
Federal Open Market Committee (FOMC): Maximum Employment, Stable Inflation, Financial Stability

Topic #0: inflation|economic|dd|prices|growth|quarter|participants|remained|market|consumer|continued|year|rate|spending|recent

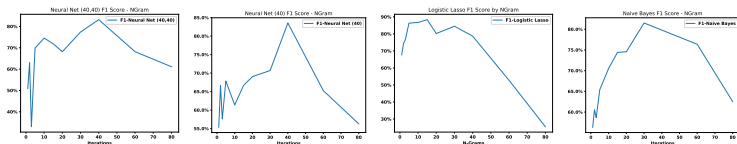
Topic #1: financial|dd|banks|capital|federal|reserve|bank|crisis|firms|federal reserve|risk|important|banking|community|market

Topic #2: rate|inflation|dd|policy|market|economic|federal|percenttarget|labor|monetary|growth|participants|term|monetary policy|longer

Ngrams (unigrams to 10-grams) - F1 Score



Reduced Features (stacked documents, larger Ngrams) - F1 Score



NEW YORK UNIVERSITY