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Recommendation Monkey
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Problem We are Solving

- Is it worth investing and putting resources into a specific industry?
- Big data and data science driven business recommendations
- Research, experiments, analysis using 4.1M Bill.com financial transactions from 2015 to 2019, amounting to $16 Billion
- Goal: present industry specific business recommendations with explainability using data engineering, advanced mathematics and statistical expressions along with data visualizations
Methods

● Statistical Methods

● K-Means Clustering
  ○ Measuring similarity via distance

● Regression Analysis
  ○ Statistical model to get a relationship of graph points
Recommendations

- Info/Tech Services Industry: did not expect a bump in volume; expected professional services to drop off after Thanksgiving to year end as opposed to following typical Holiday spending
  - Recommend targeting Info/Tech companies at the end of year

- Pursue companies with both high transaction velocity and acceleration

- Industry Recommendations
  - Administrative and Support, Waste Management, and Remediation Services
  - Real Estate and Rental and Leasing
  - Professional, Scientific, and Technical Services
Next Steps

● Goal: 6 to 7 business recommendations
● Goal: 6 to 7 total methods applied to data
● More sophisticated visualization
● Compare and Contrast various statistical methods applied to the data