Capstone Project Ideas:

Project 1: Tax Collection Scams Skyrocket

Question: Business problem: Can we predict or correctly identify an IRS collector scammer based on certain attributes?

If that is case, maybe phone companies such as MagicJack, AT&T, etc other can develop algorithm along with technologies to further prevent these type of con artists impersonating tax collectors.

Description of the Dataset:

Tax-related identity theft was the most common form of identity theft reported to the Federal Trade Commission in 2014, while the number of complaints from consumers about criminals impersonating IRS officials was nearly 24 times more than in 2013, according to FTC statistics released today.

The FTC, along with the Department of Veterans’ Affairs, Treasury Inspector General for Tax Administration, the AARP, and other partners are holding a series of events this week designed to educate consumers about these issues as part of [Tax Identity Theft Awareness Week](http://ftc.gov/taxidtheft), which begins today and runs through Jan. 30.

URL: <https://www.ftc.gov/news-events/press-releases/2015/01/tax-id-theft-tops-ftc-complaints-2014-irs-imposter-complaints>

<https://github.com/BuzzFeedNews/2014-08-irs-scams>

More information about the dataset:

<https://www.buzzfeed.com/johntemplon/tax-collection-scams-skyrocket?utm_term=.leymNBwOMj#.xiMZ0Wd9aL>

Project 2: Consumer credit Trends

Either on student loans,

Business problem: What components are right to give borrower’s who could be potentitally risky?

Nearly three quarters of United States college graduates deal with the debt for several years, after they leave school and their loans will impact on their decisions on housing, and marriage and their careers.

It threatens the economic security of the country and the financial futures of Millennial generation. Potential entrepreneurs are also have more difficulty securing loans for their business due to their debt; the loan balance can bring down their credit scores significantly

Project 2: Consumer Credit Trends on Mortgages

URL:

<https://github.com/cfpb/consumer-credit-trends>

Business problem: Whether companies are complying with DODD regulations, if they are offering

https://www.consumerfinance.gov/data-research/consumer-credit-trends/student-loans/borrower-risk-profiles/

Description of Dataset:

Project 3: Home Mortgage Disclosure Act Data for years 2007-2014

Business Problem: In year of 2017, there was a forecast there be a demand of home buyers to purchase US homes in January?

Last year, Federal reserve raise interest rates

Is interest rate the primary component of refinance? With so many big impactors in play, 2017 should be an eye opening one for U.S. Mortgage sector, especially during the first three months of the year. Expect change and volatility, because that’s what experts will transpire with mortgages in 2017.

Forecast: Will there be lower home prices?

Another potential business problem: Citi, Bank of America, and Wells Fargo are absorbing their credit crisis mortgage purchases and dealing with upcoming regulatory changes to be buyers.

Key issues that arise in financing service advances include:

1. Estimating recovery timelines for outstanding services
2. Delinking services advances from performance and financial condition of the servicing;
3. Confirming the priority of servicing

May need an extra data set to merge?

URL: <https://catalog.data.gov/dataset/home-mortgage-disclosure-act-data-for-the-years-2007-2012>

Description of the Data set: The Home Mortgage Disclosure act 11975, requires many depository and non-depository lenders to collect and publicly disclose information about housing-related loans

Method: Classification, Lasso

Project 4: I cou