Feature Selections – T3

1. Feature Selection methods

Supervised: We experiment it using scikit-learn library Chi2 and SelectKBest

Unsupervised: PCA, LSA with RFE

2. Missing Data

We remove records that have missing Categories

For other columns, we replace with default values (as in data\_dictionary\_incidents.csv), empty string or value from another column

|  |  |  |
| --- | --- | --- |
| **Column** | **Number of missing** | **Replace with** |
| AssetLabel | 1334 | Empty string |
| CauseCommunity | 4023 | Unknown external/community factor |
| CauseEnvironment | 4983 | Unknown environment factor |
| CausePre | 6411 | Empty string |
| CauseTechnical | 3338 | Unknown technical factor |
| CauseWorkP | 6327 | Unknown work practice factor |
| ContactType | 5637 | Empty string |
| CorrectProtection | 2251 | 2 |
| FailedOtherAssetsOther | 6479 | Empty string |
| FeederNumber | 1326 | Empty string |
| IncidentCause | 1 | Empty string |
| IncidentFireFFactorReportable | 3831 | 2 |
| IncidentFireSeverity | 3728 | Empty string |
| IncidentLocationType | 650 | Empty string |
| IncidentLocationTypeOther | 6427 | Empty string |
| Postcode | 12 | Get from Address |
| Locality | 45 | Get from Address |

3. Dimensionality Reduction

- SelectKBest Chi2, experiment with 1000 words, 5000 words

- LSA

- RFE (backward eliminiation), experiment with 1000, 3000, 5000 features

4. Process

All columns and number of missing values:

ActionTaken 0

Address 0

AssetLabel 1334

CauseCommunity 4023

CauseEnvironment 4983

CausePre 6411

CauseTechnical 3338

CauseWorkP 6327

ContactType 5637

CorrectProtection 2251

EventDescription 0

FailedAssets 0

FailedExplosion 0

FailedOilFilled 0

FailedOtherAssets 0

FailedOtherAssetsOther 6479

FeederNumber 1326

IncidentCause 1

IncidentConsequence 0

IncidentDatetime 0

IncidentFireFFactorReportable 3831

IncidentFireSeverity 3728

IncidentID 0

IncidentLocationType 650

IncidentLocationTypeOther 6427

IncidentNumber 0

IncidentType 0

Lat 0

Long 0

MadeSafe 0

NetworkType 0

Status 0

SubmissionID 0

SubmittedDateTimeString 0

Voltage 0

WeatherStation 0

Postcode 12

Locality 45

Category 0

category\_id 0

First column eliminations based on data analysis cleaned\_incidents1.csv

Address, Postcode, Lat, Long columns. The reason is they are already represented by Locality column

IncidentID, IncidentNumber, SubmissionID, SubmittedDateTimeString. They are unique for each incident.

5. Feature Selection Result

5.1.a Chi2

The steps are:

- Initial eliminations of unimportant columns such as Address, Long, Lat

- Fill out missing data

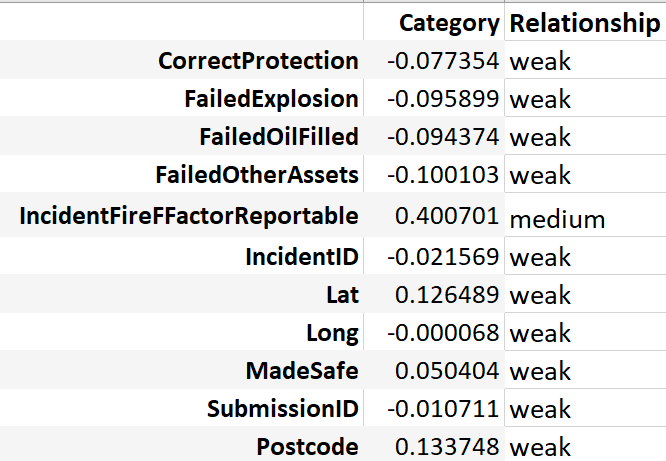
- Find correlation between numeric columns with Category (figure 5.1.1)

- For text columns, we combined them, clean the data (remove symbols, white-space, and lemmatize), vectorize and find top 50 words that determine each Categories. The total keywords are 750 words (see **Top 10 words for each Category** below**)**

- Count how many keywords in each text Category. The higher number of keywords in the column, the more important the columns are (figure 5.1.2)

- Select important columns and used in Classifications

- Run classifications for different combinations of columns (figure 5.1.3)



*figure 5.1.1*

**Top 10 words for each Category are:**

**# 'AF Other':**

['street', 'pe', 'sodium', 'luminaire', 'capacitor', 'light', 'hp', 'component', 'defective', 'lantern']

**# 'Animal':**

['bat', 'pelican', 'flash', 'wader', 'crow', 'magpie', 'nest', 'possum', 'flashover', 'bird']

**# 'Conductor':**

['conductor', 'slack', 'mid', 'sleeve', 'mechanical', 'span', 'rusty', 'splice', 'clash', 'spreader']

**# 'Connection':**

['tap', 'neutral', 'loose', 'shower', 'termination', 'box', 'corrode', 'corrosion', 'overheat', 'connection']

**# 'Crossarm':**

['precipitation', 'track', 'top', 'current', 'excessive', 'wood', 'cross', 'arm', 'leakage', 'crossarm']

**# 'Dug up':**

['civil', 'conduit', 'boring', 'excavate', 'dig', 'close', 'excavation', 'contractor', 'dug', 'underground']

**# 'Fuse':**

['barrel', 'hung', 'eject', 'ba', 'tube', 'acid', 'boric', 'fuse', 'edo', 'candle']

**# 'Installation':**

['eio', 'heater', 'ardmona', 'poa', '20200212spn', 'nil', 'arrester', 'conditioner', 'board', 'unidentified']

**# 'Lightning':**

['walpeup', 'bwd', 'injection', 'storm', 'struck', 'appliance', '15pm', '20171122utd', 'strike', 'lightning']

**# 'OH Cable':**

['electric', 'corrosion', 'metallic', 'perforation', 'hand', 'corrode', 'hvabc', 'tap', 'neutral', 'screen']

**# 'Other':**

['live', 'attempt', 'cut', 'person', 'unauthorised', 'pit', 'vandalism', 'steal', 'copper', 'theft']

**# 'Pole':**

['prone', 'precipitation', 'negligible', 'dust', '20180515pwa', 'current', 'top', 'wood', 'excessive', 'leakage']

# **'Trees'**:

['strong', 'clearance', 'limb', 'blown', 'fall', 'fell', 'wind', 'vegetation', 'branch', 'tree']

**# 'UG Cable':**

['no2', 'pit', '220kv', 'heatherton', 'learn', 'protrude', '20180122pwa', 'combine', 'trace', 'ipcs']

**# 'Vehicle':**

['tip', 'farm', 'car', 'excavator', 'driver', 'struck', 'crane', 'hit', 'truck', 'vehicle']

**Relevant columns:**

Chart, histogram

Description automatically generated

*figure 5.1.2*

Chart, line chart

Description automatically generated

*figure 5.1.3*

5.1.b SelectKBest

SGD with 1000 features, accuracy is 78.19%

SGD with 3000 features, accuracy is 79.05%

SGD with 5000 features, accuracy is 79.48%

SGD with 12099 features (all), accuracy is 80.04%

SVC with 1000 features, accuracy is 80.9%

SVC with 3000 features, accuracy is 82.81%

SVC with 5000 features, accuracy is 83.86%

SVC with 12099 features, accuracy is 83.61%

RF with 1000 features, accuracy is 80.59%

RF with 3000 features, accuracy is 80.96%

RF with 5000 features, accuracy is 80.78%

RF with 12099 features, accuracy is 79.61%

Summary:

The optimal number of features varies depending on type of classifiers

**Conclusion**

The candidate columns are:

EventDescription

IncidentCause

ActionTaken

FailedAssets

CauseCommunity

CauseTechnical

The new dataset with selected columns is processed\_dataset\_chi2.csv

The optimal number of features varies on the classification methods.

5.2 Information Gain

**Dataset Clean up steps**

* Drop missing ‘Category’ value rows
* Impute most frequent value for categorical columns

# categorical features  
cat\_features = ["CauseCommunity",  
"CauseEnvironment",  
"CausePre",  
"CauseTechnical",  
"CauseWorkP",  
"ContactType",  
"IncidentFireSeverity",  
"IncidentLocationType",  
"IncidentType",  
"NetworkType",  
"WeatherStation",  
"Status",  
"Voltage"]

* Impute most frequent value for integer/categorical columns

# integer features  
int\_features = ["CorrectProtection",  
"FailedExplosion",  
"FailedOilFilled",  
'FailedOtherAssets',  
"IncidentFireFFactorReportable",  
"MadeSafe"]

* Drop irrelevant columns

id\_columns = ['IncidentDatetime', 'IncidentID', 'IncidentNumber', 'SubmittedDateTimeString', 'SubmissionID']

* Drop missing values columns

# drop more columns which have many missing values  
drop\_cols = ['IncidentLocationTypeOther', 'FeederNumber', 'AssetLabel', 'FailedOtherAssetsOther']  
dataset.drop(columns=drop\_cols, inplace=True)

* Drop missing values rows after all these clean up

# drop rows which have missing values  
dataset.dropna(axis=0, inplace=True)

* Implement GeoHash using latitude and longitude

# Result

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EventDescription 2.40858

Address 2.39884

IncidentCause 2.30474

ActionTaken 1.87143

FailedAssets 1.29027

Locality 1.18885

geohash 1.17236

IncidentConsequence 0.883725

Postcode 0.810432

CauseTechnical 0.711093

CauseCommunity 0.646709

CauseEnvironment 0.501718

Voltage 0.310402

WeatherStation 0.198996

NetworkType 0.12088

IncidentLocationType 0.112477

IncidentFireSeverity 0.0933029

CorrectProtection 0.077116

IncidentType 0.0519992

FailedOilFilled 0.0326085

FailedExplosion 0.0244295

FailedOtherAssets 0.0218966

CauseWorkP 0.0206117

ContactType 0.0165976

MadeSafe 0.0136651

IncidentFireFFactorReportable 0.00448657

Status 0.00402719

CausePre 0.00363545

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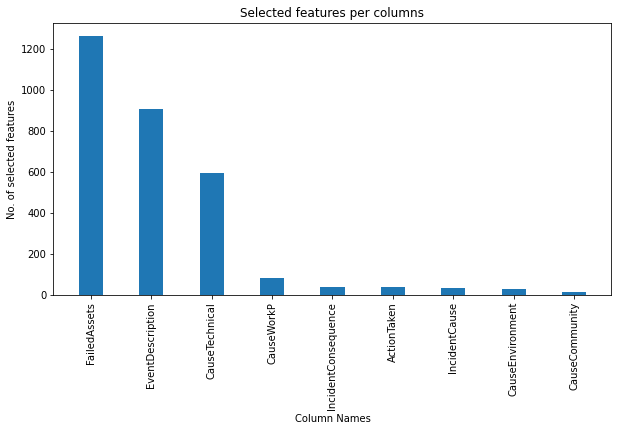
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**Conclusion**

* New clean dataset has been produced for experiment. (processed\_dataset\_IG.csv)

5.3. RFE (backward elimination with sklearn)



As you can see from the above result, the FailedAssets, EventDescription and CauseTechnical are the most relevant columns.

In onder to be able to trace to the original columns, I vectorized each column then concat the results. This is not the case in classification, you must concat the columns then vectorize the data as a whole.

I only count number of selected features in each column and do not consider the ranks

RFE eliminate features with low weights (e.g., the coefficients of a linear model)

The following actions affected the result:

* Classification method
* number of features selected during RFE
* min\_df in tf-idf

RFE is not the best feature selection for text classification. This experiment only gives some guidance in order to select relevant columns

**5.4 Dimensionality reduction using truncatedsvd**

We have chosen four and nine set of features out of the given columns'EventDescription', 'ActionTaken', 'IncidentCause', 'IncidentConsequence', 'CauseCommunity', 'FailedAssets', 'CauseWorkP', 'CauseTechnical', 'CauseEnvironment'.

For four it is only 'EventDescription', 'IncidentCause', 'IncidentConsequence', 'FailedAssets'

They are been chosen on the basis of having least missing data. All features represent text data.

As truncatedSVD is a dimensionality reduction technique, we have computed what max features from the text columns could possibly represent the highest variance of the dataset.

The sparse matrix of tfidf vectorizer produced is used for truncatedsvd.

The illustration on findings (for 4 text columns)

Graphical user interface

Description automatically generated

From the above, 1500 features can represent around 98.3% of the data.

We have then computed the accuracies of algorithms (with smote) with 1500 components as features.

SVM and KNN accuracies are 83 and 77 respectively.

Chart, line chart

Description automatically generatedLater, on the study of n-components on the impact on the accuracies, for 4 and 9 set of features.

9 features always give a slightly better accuracy compared to 4 features. Random forest shows better results with low number of components, while SGD, SVC give slightly higher accuracies with more components

Conclusion –

1. 9 set of features provide slightly better results, but from the visualisations, there is no significant accuracy difference beyond 1500 components

**Implementing Classifiers and experimentation with different features**

We have implemented classifiers with different set of features also in combination with SMOTE, we have tabulated our findings.

The accuracy comparison table with the chosen best set of features for every classification algorithm.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No.** | **Features Used** | **Feature Extraction Method** | **Classification Algorithm** | **Accuracy** |
| 1 | EventDescription, IncidentCause, IncidentConsequence | TF-IDF  SMOTE  TextHero | **Random Forest** | 81.75% |
| 2 | EventDescription, IncidentCause, IncidentConsequence | TF-IDF (analyzer='word', max\_features=5000)  SMOTE  Texthero | **SVM** | 83% |
| 3 | CauseCommunity, CauseEnvironment, CauseTechnical, EventDescription, FailedAssets IncidentCause | TF-IDF, SMOTE, TextHero | KNN | 73.93% |
| 4 | EventDescription, IncidentCause, IncidentConsequence | TF-IDF  TextHero | **SGD** | 83.29% |
| 5 | EventDescription, FailedAssets, IncidentCause, IncidentConsequence, IncidentType, Status, WeatherStation | Count Vectorizer | Logistic Regression (Ridge) | 83.60% |
| Count Vectorizer | **Logistic Regression (Lasso)** | 83.66% |
| TF-IDF(5000) | Logistic Regression (ElasticNet) | 83.60% |
|  | Event Description, IncidentCause, FailedAssets, IncidentConsequence, IncidentType, WeatherStation, Status | TF-IDF(5000 | XGBoost | 83.2% |
| 7 | EventDescription, IncidentCause, IncidentConsequence | TF-IDF (5000)  Text hero | Naïve Bayes (Multinomial NB) | 77.99% |
| 8 | CauseCommunity, CauseEnvironment, CauseTechnical, EventDescription, FailedAssets IncidentCause | TF-IDF(6000, ngram\_range = (1,2)), SMOTE, TextHero, Optimized | Decision Tree | 77.82% |
| 9 | EventDescription, IncidentCause, IncidentConsequence | TF-IDF  SMOTE  TextHero | **Stacking Model** | 82.12% |
| 10 | EventDescription, FailedAssets, IncidentCause, IncidentConsequence, IncidentType, Status, WeatherStation | TF-IDF  NLTK | AdaBoost | 50.54% |
| 11 | EventDescription, Incident Cause, Incident Consequence | Text hero,  Keras text\_to\_sequence and pad sequence | RNN | 81% |
| 12 | EventDescription, Incident Cause, Incident Consequence | TextHero  TF-IDF (1000) | **MLP** | 83.35% |

Conclusion:

* Classifiers RNN, SVM, SGD, XGBoost, Randomforest, Logistic regression, MLP give better results in terms of accuracy.
* The performance of classifier varies with smote, feature extraction methods and the selected features.
* Training of classifiers with multiple features (apart from incident cause, incident consequences, event description) did not cause any drastic difference in accuracies.