1. Report from Virus Total API

- Inorder for us to get the report, we need either one of scan_id, sha1, resource, sha256,
 md5
- Extracted total number of engines used and the number of engines that gave the result positive.

Malware detection percentage using VirusTotal API has been found

```
'scan_id':
'f7cb1a31a2aa318936dcead17c9ec7c2b37a4bfb0dcb8e8563987432601866d5-1543439833',
    'sha1': 'f8d953a75e89b6350dc45996a07658f955c67440',
    'resource': 'f7cb1a31a2aa318936dcead17c9ec7c2b37a4bfb0dcb8e8563987432601866d5',
    'response_code': 1, 'scan_date': '2018-11-28 21:17:13',
    'permalink':'https://www.virustotal.com/file/
f7cb1a31a2aa318936dcead17c9ec7c2b37a4bfb0dcb8e8563987432601866d5/analysis/1543439833/',
    'verbose_msg': 'Scan finished, information embedded',
    'total': 57,
    'positives': 15,
    'sha256': 'f7cb1a31a2aa318936dcead17c9ec7c2b37a4bfb0dcb8e8563987432601866d5',
    'md5': 'f82f0c062d746172f191b18e1e3d26a0'
}
```

2. Cross-validation Score

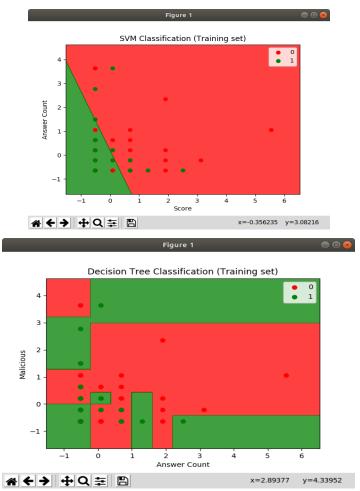
• 10 - Fold Validation Accuracy for Train Set using SVC.

```
SVC Cross Validation Accuracies:
[0.55555556 0.55555556 0.44444444 0.625 0.5
0.625
0.75 0.5 0.375 0.875 ]
```

• 10 - Fold Validation Accuracy for Train Set using DTC.

```
Decsion Tree Cross Validation Accuracies:
[0.55555556 0.88888889 0.33333333 0.625 0.5
0.75
0.625 0.5 0.5 0.625 ]
```

3. SVC(Support Vector Classifier) vs DTC(Decision Tree Classifier) over Train set.



4. SVC(Support Vector Classifier) vs DTC(Decision Tree Classifier) over Test set.

