**SQL Injection**

**Project 1**: https://github.com/tungpv98/Detect-Sql-Injection-by-Machine-Learning/tree/master/Sql-Injection

* Use of classification method and GBT(Gradient Boosting Tree) algorithm.  
  You can also use RandomForest, SVM, etc.(easy to use from sklearn.)

**Project 2**: <https://github.com/shreekanthsenthil/SQL-Injection-Detection>

* Used Deep Learning (ANN) to detect SQL Injection

**Project 3**: <https://github.com/grassknoted/SAST-using-ML>

* The potential models that would possibly work the best to eliminate false positives are:

**1. Ensemble Learning -** Instead of selecting the highest ranked learning model, create an ensemble of the chosen learning models. The technique used to create the ensemble could either be bootstrap aggregation or boosting (Adaboosting, GBMs)

**2. RNN with LSTM Units -** Correlate the vulnerabilities generated(as opposed to treating them as independent events) , to detect a pattern. This could be achieved using an LSTM model.

**XSS**

**Project 1:** <https://github.com/fmereani/Cross-Site-Scripting-XSS>

* The project contains the Matlab code for creating SVM, K-NN, Random Forest, and Neural Networks classifiers to detect Web applications attacks.

**Project 2**: <https://github.com/johnnymythology/Project-Sentinel>

* I went ahead and use support vector machine learning. It is extremely powerful, able to classify datasets on the vector non-linearly.

**Project 3**: <https://github.com/resdust/xss_detector>

* Used MLP and random Forest Classifier

**DDoS**

**Project 1**: <https://github.com/JamesQuintero/DDoS-Attack-Detection>

* Uses ANN to detect DDoS attacks

**Project 2:** <https://github.com/pykira-cpu/AI_Cybersecurity_finalproject>

* LogisticRegression(),
* KNeighborsClassifier(n\_neighbors=3)
* MLPClassifier(alpha=0.005)
* DecisionTreeClassifier()

**Anomaly Detection**

**Project 1**: <https://github.com/Reethika-hrudya/Anomaly-Detection>

* Uses K Means Clustering to identify whether a user is malicious or not.

**Project 2**: <https://github.com/kahramankostas/Anomaly-Detection-in-Networks-Using-Machine-Learning>

* Uses Naive Bayes, QDA, and MLP algorithms.