**APT Detection Prevention in Heterogenous Networks using SIEM Deep Learning**

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**1) Data Pre-processing**

1.1) Dimentionality Reduction

1.1.1) PCA

1.1.2) SVD

1.2) K-means cluster centroids (new dataset for training)

1.3) SMOTE

**2)** **Model Generation**

2.1) KNN

2.2) Decision tree

2.3) Random Forest

2.4) SVM

**3) Deep Learning Model Generation**

3.1) ANN

3.2) LSTM