

CyberGPT

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CyberGPT

About

CyberGPT is a smart AI assistant for cyber security analysts.

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New Chat

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Mitre CSV

This page loads information from MITRE ATT&CK for the LLM to query.

Extract 100 Software Description entries and 100 Mitigation Description entries from the dataframe, df. DO NOT LOAD data.csv, just use the data frame, df. Then embed them into 128-dimension vectors using TF/IDF representations. Finally use UMAP to reduce them to 2D and output as a plot. Don't show or save the plt at the end.

Conversation

😊 Extract 100 Software Description entries and 100 Mitigation Description entries from the dataframe, df. DO NOT LOAD data.csv, just use the data frame, df. Then embed them into 128-dimension vectors using TF/IDF representations. Finally use UMAP to reduce them to 2D and output as a plot. Don't show or save the plt at the end.



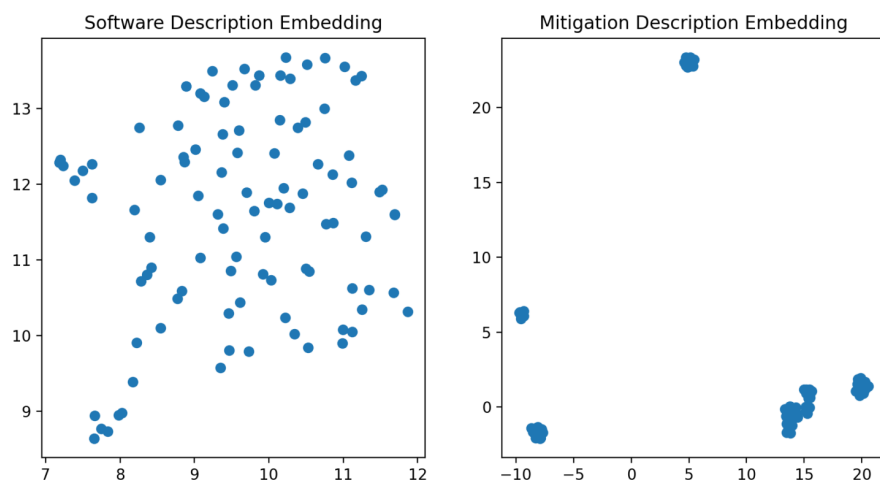
```
from sklearn.feature_extraction.text import TfidfVectorizer
import umap.umap_ as umap
import matplotlib.pyplot as plt

# Extracting the required columns
soft_desc = df['Software Description'].dropna().sample(n=100, random_state=42)
mit_desc = df['Mitigation Description'].dropna().sample(n=100, random_state=42)

# Preprocessing for embedding
vectorizer = TfidfVectorizer(stop_words='english')
soft_tfidf = vectorizer.fit_transform(soft_desc)
mit_tfidf = vectorizer.fit_transform(mit_desc)

# Embedding using UMAP
reducer = umap.UMAP(n_neighbors=15, n_components=2, metric='cosine')
soft_embedding = reducer.fit_transform(soft_tfidf)
mit_embedding = reducer.fit_transform(mit_tfidf)

# Plotting the embeddings
fig, ax = plt.subplots(1, 2, figsize=(10, 5))
ax[0].scatter(soft_embedding[:, 0], soft_embedding[:, 1])
ax[0].set_title('Software Description Embedding')
ax[1].scatter(mit_embedding[:, 0], mit_embedding[:, 1])
ax[1].set_title('Mitigation Description Embedding')
```



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