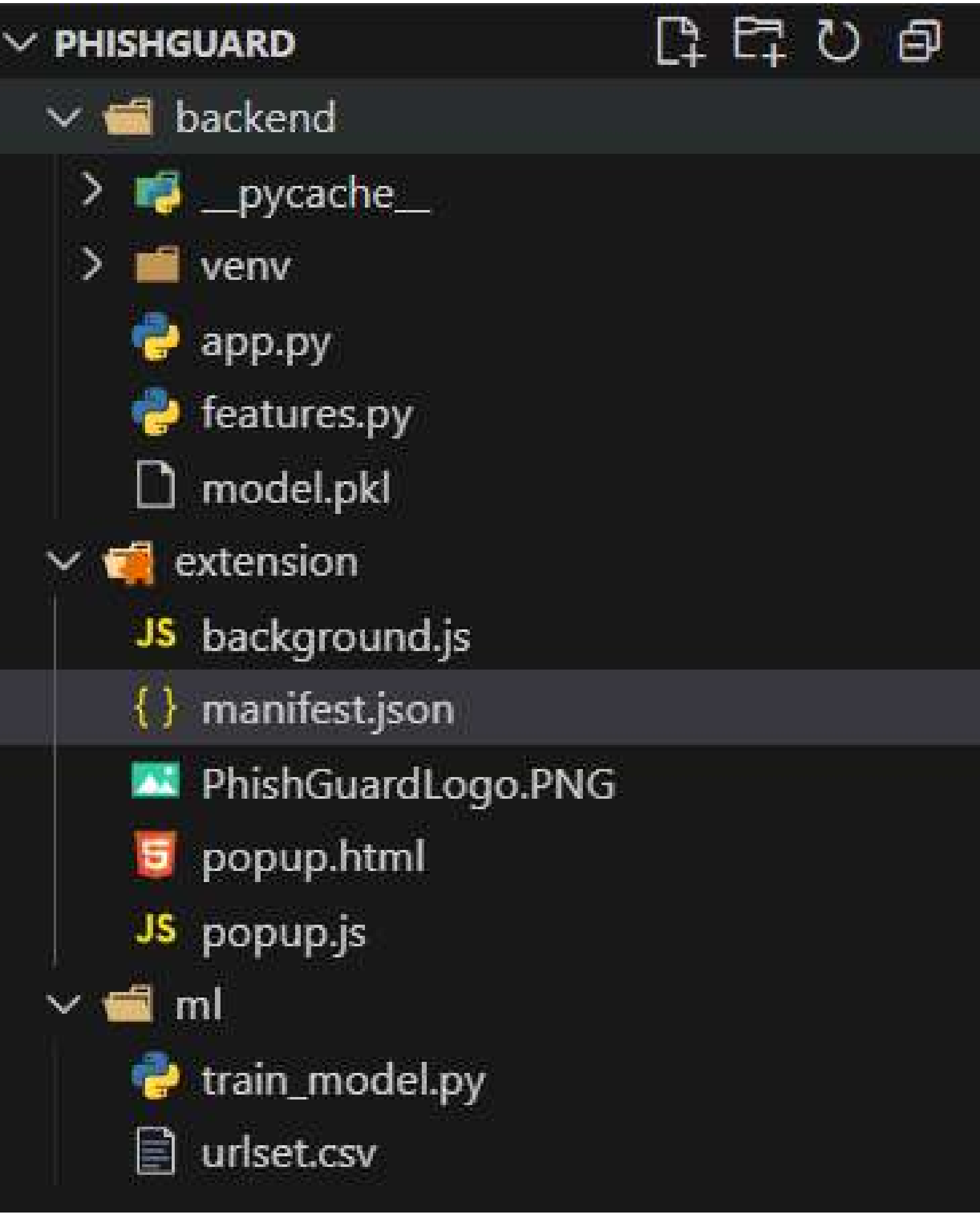

PHISHGUARD
backend
__pycache__
venv
app.py
features.py
model.pkl
extension
background.js
manifest.json
PhishGuardLogo.PNG
popup.html
popup.js
ml
train_model.py
urlset.csv

All Extensions

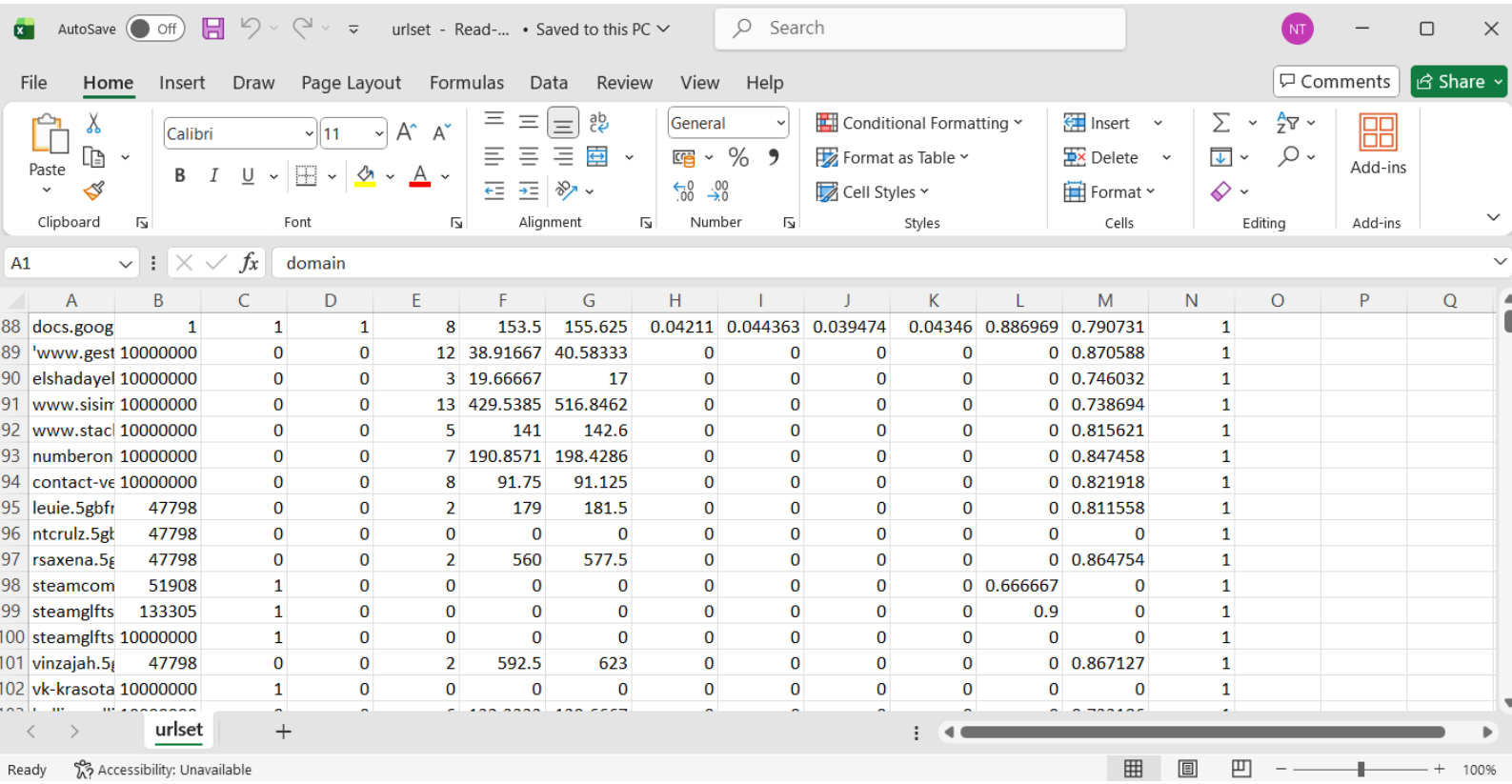
PhishGuard 1.0

AI-powered phishing protection for URLs.

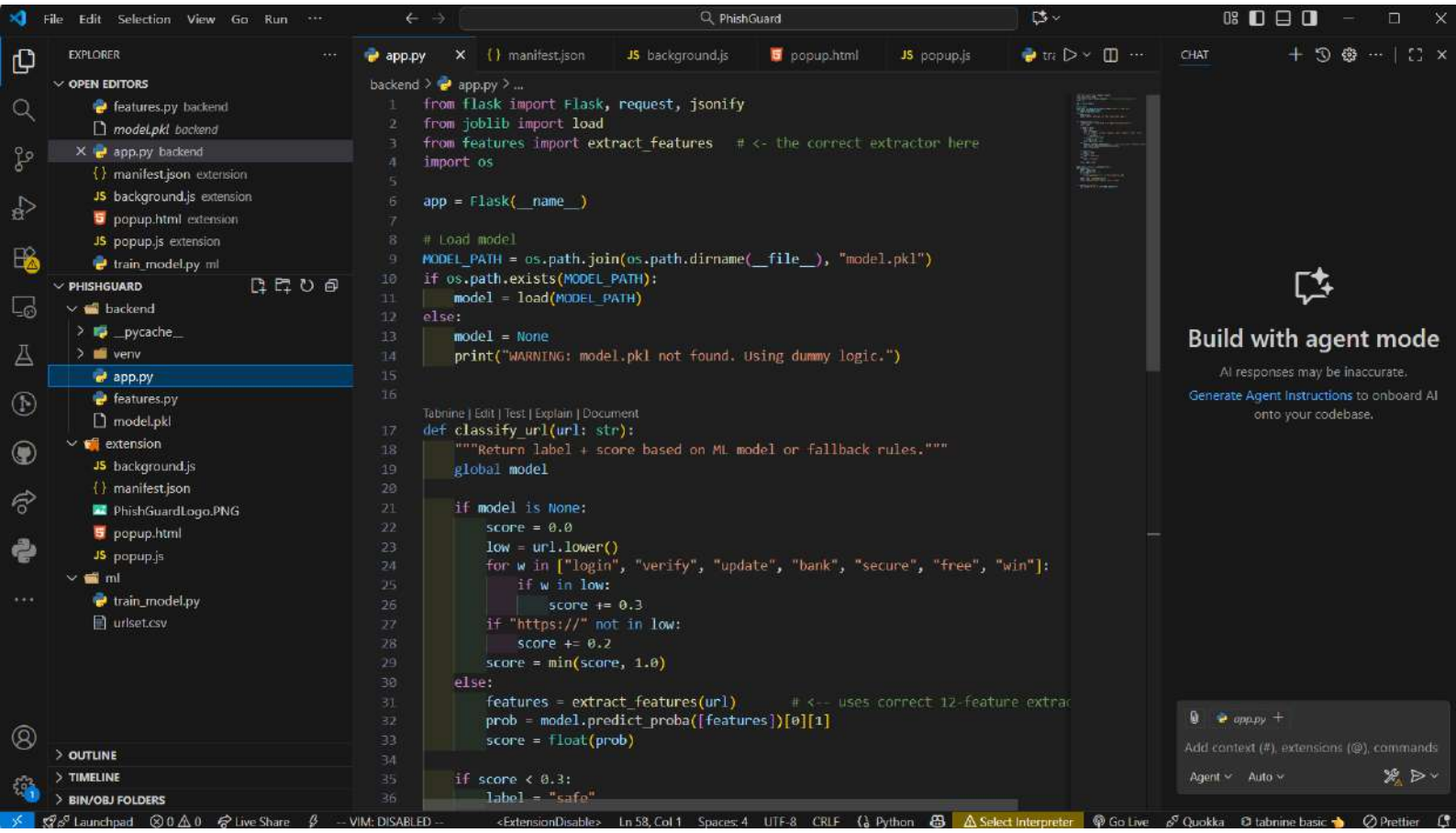
ID: fibkjooljpjcfddlpbmieceipabmeggl

Inspect views service worker

Details Remove



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
88	docs.goog	1	1	1	8	153.5	155.625	0.04211	0.044363	0.039474	0.04346	0.886969	0.790731	1			
89	'www.gest	10000000	0	0	12	38.91667	40.58333	0	0	0	0	0	0.870588	1			
90	elshadayel	10000000	0	0	3	19.66667	17	0	0	0	0	0	0.746032	1			
91	www.sisim	10000000	0	0	13	429.5385	516.8462	0	0	0	0	0	0.738694	1			
92	www.stacl	10000000	0	0	5	141	142.6	0	0	0	0	0	0.815621	1			
93	numberon	10000000	0	0	7	190.8571	198.4286	0	0	0	0	0	0.847458	1			
94	contact-ve	10000000	0	0	8	91.75	91.125	0	0	0	0	0	0.821918	1			
95	leuie.5gbfr	47798	0	0	2	179	181.5	0	0	0	0	0	0.811558	1			
96	ntcrulz.5gl	47798	0	0	0	0	0	0	0	0	0	0	0	1			
97	rsaxena.5g	47798	0	0	2	560	577.5	0	0	0	0	0	0.864754	1			
98	steamcom	51908	1	0	0	0	0	0	0	0	0	0.666667	0	1			
99	steamglfts	133305	1	0	0	0	0	0	0	0	0	0.9	0	1			
100	steamglfts	10000000	1	0	0	0	0	0	0	0	0	0	0	1			
101	vinzajah.5g	47798	0	0	2	592.5	623	0	0	0	0	0	0.867127	1			
102	vk-krasota	10000000	1	0	0	0	0	0	0	0	0	0	0	1			


File Edit Selection View Go Run
PhishGuard
EXPLORER
OPEN EDITORS
features.py backend
model.pkl backend
app.py backend
manifest.json extension
background.js extension
popup.html extension
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train_model.py ml
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OUTLINE
TIMELINE
BIN/OBJ FOLDERS
app.py
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popup.js
backend > app.py > ...
from flask import Flask, request, jsonify
from joblib import load
from features import extract_features # <- the correct extractor here
import os
app = Flask(__name__)
# Load model
MODEL_PATH = os.path.join(os.path.dirname(__file__), "model.pkl")
if os.path.exists(MODEL_PATH):
model = load(MODEL_PATH)
else:
model = None
print("WARNING: model.pkl not found. Using dummy logic.")
Tabnine | Edit | Test | Explain | Document
def classify_url(url: str):
"""Return label + score based on ML model or fallback rules."""
global model
if model is None:
score = 0.0
low = url.lower()
for w in ["login", "verify", "update", "bank", "secure", "free", "win"]:
if w in low:
score += 0.3
if "https://" not in low:
score += 0.2
score = min(score, 1.0)
else:
features = extract_features(url) # <-- uses correct 12-feature extrac
prob = model.predict_proba([features])[0][1]
score = float(prob)
if score < 0.3:
label = "safe"
CHAT
Build with agent mode
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
app.py
Add context (#), extensions (@), commands
Agent
Auto
Launchpad
Live Share
-- VIM: DISABLED --
<ExtensionDisable>
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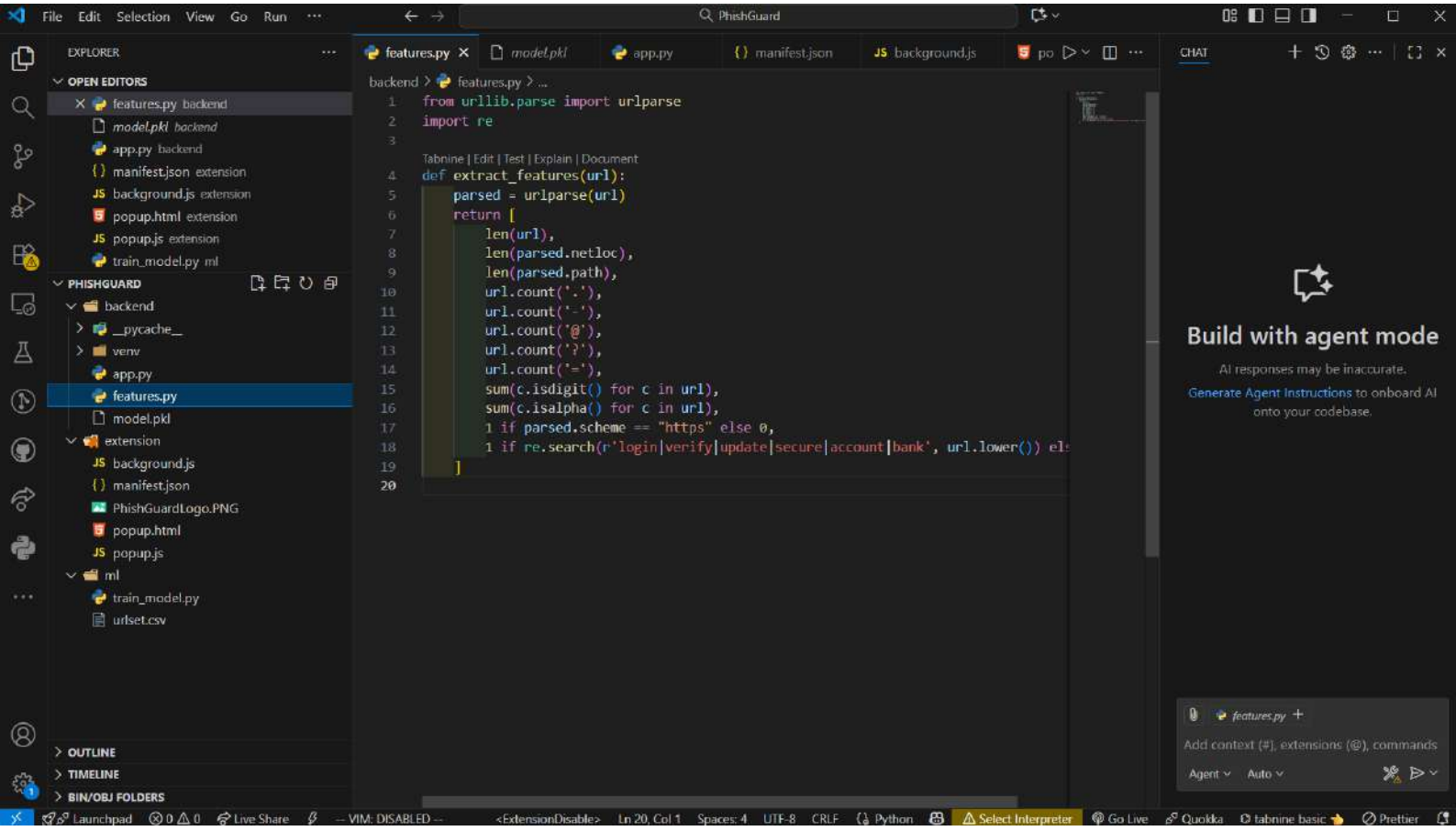
Spaces: 4
UTF-8
CRLF
Python
Select Interpreter
Go Live
Quokka
tabnine basic
Prettier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backend > features.py > ...
from urllib.parse import urlparse
import re
Tabnine | Edit | Test | Explain | Document
def extract_features(url):
parsed = urlparse(url)
return [
len(url),
len(parsed.netloc),
len(parsed.path),
url.count('.'),
url.count('-'),
url.count('@'),
url.count('?'),
url.count('='),
sum(c.isdigit() for c in url),
sum(c.isalpha() for c in url),
1 if parsed.scheme == "https" else 0,
1 if re.search(r'login|verify|update|secure|account|bank', url.lower()) el
]
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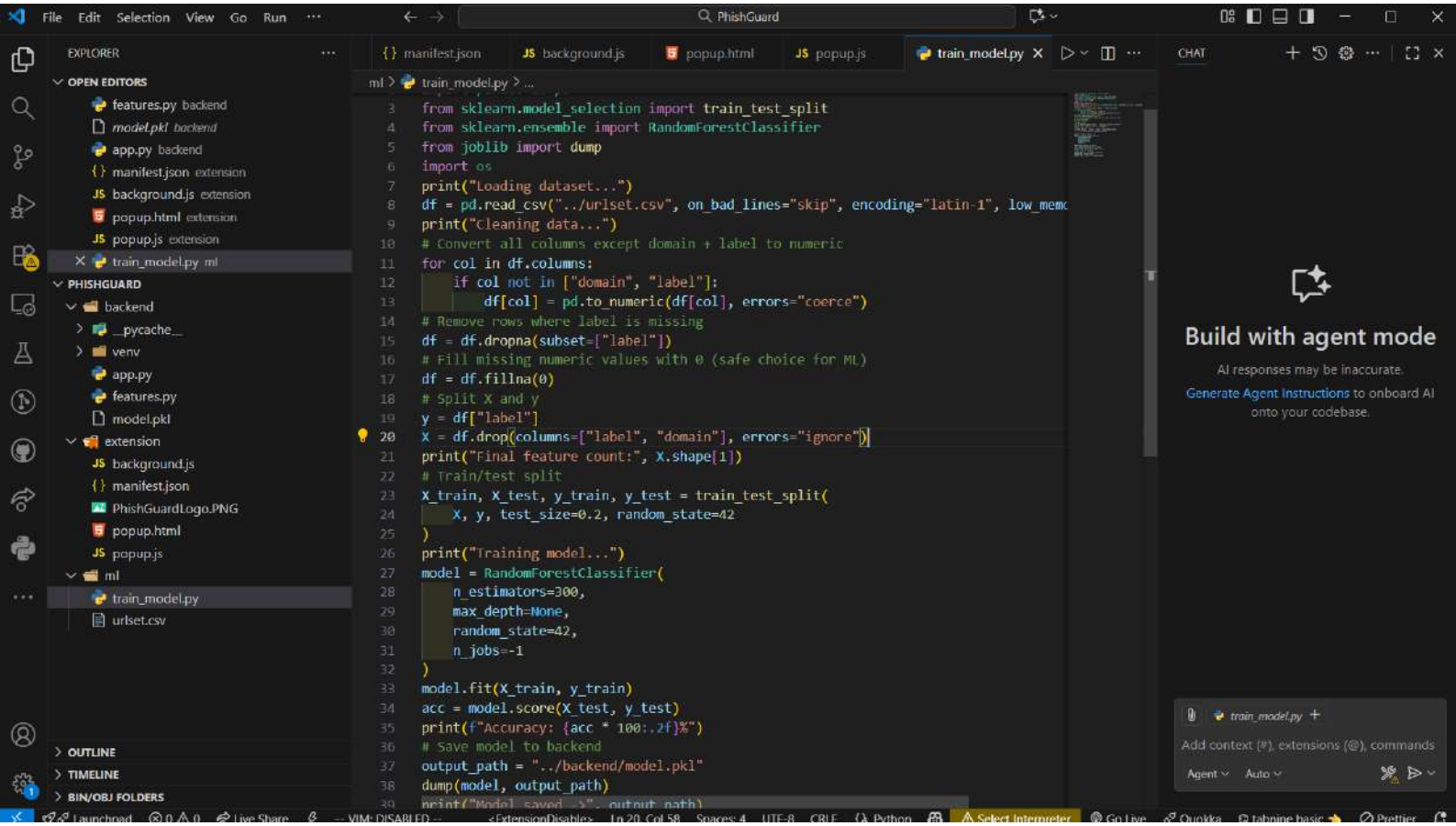
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train_model.py
ml > train_model.py > ...
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from joblib import dump
import os
print("Loading dataset...")
df = pd.read_csv("../urlset.csv", on_bad_lines="skip", encoding="latin-1", low_memo
print("Cleaning data...")
# Convert all columns except domain + label to numeric
for col in df.columns:
if col not in ["domain", "label"]:
df[col] = pd.to_numeric(df[col], errors="coerce")
# Remove rows where label is missing
df = df.dropna(subset=["label"])
# Fill missing numeric values with 0 (safe choice for ML)
df = df.fillna(0)
# Split X and y
y = df["label"]
X = df.drop(columns=["label", "domain"], errors="ignore")
print("Final feature count:", X.shape[1])
# Train/test split
X_train, X_test, y_train, y_test = train_test_split(
X, y, test_size=0.2, random_state=42
)
print("Training model...")
model = RandomForestClassifier(
n_estimators=300,
max_depth=None,
random_state=42,
n_jobs=-1
)
model.fit(X_train, y_train)
acc = model.score(X_test, y_test)
print(f"Accuracy: {acc * 100:.2f}%")
# Save model to backend
output_path = "../backend/model.pkl"
dump(model, output_path)
print("Model saved ->", output_path)
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tabnine basic
Prettier

```
(venv) C:\Users\nitan\PhishGuard\backend>python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on all addresses (0.0.0.0)
 * Running on http://127.0.0.1:5000
 * Running on http://172.192.53.110:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 204-567-138
C:\Users\nitan\PhishGuard\backend\venv\Lib\site-packages\sklearn\utils\validation.py:2749: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
127.0.0.1 - - [23/Nov/2025 21:54:52] "POST /check_url HTTP/1.1" 200 -
C:\Users\nitan\PhishGuard\backend\venv\Lib\site-packages\sklearn\utils\validation.py:2749: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
127.0.0.1 - - [23/Nov/2025 21:55:01] "POST /check_url HTTP/1.1" 200 -
C:\Users\nitan\PhishGuard\backend\venv\Lib\site-packages\sklearn\utils\validation.py:2749: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
127.0.0.1 - - [23/Nov/2025 21:55:07] "POST /check_url HTTP/1.1" 200 -
C:\Users\nitan\PhishGuard\backend\venv\Lib\site-packages\sklearn\utils\validation.py:2749: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
  warnings.warn(
127.0.0.1 - - [23/Nov/2025 21:55:11] "POST /check_url HTTP/1.1" 200 -
C:\Users\nitan\PhishGuard\backend\venv\Lib\site-packages\sklearn\utils\validation.py:2749: UserWarning: X does not have
valid feature names, but RandomForestClassifier was fitted with feature names
```