Untitled.txt

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# Import required libraries
from sklearn import datasets
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier, VotingClassifier
from sklearn.svm import SVC
from sklearn.linear_model import LogisticRegression

# Load sample dataset
iris = datasets.load_iris()

# Split dataset into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(iris.data, iris.target,
test_size=0.3)

# Build individual models
svc_model = SVC(kernel='linear', probability=True)
rf_model = RandomForestClassifier(n_estimators=10)
lr_model = LogisticRegression()

# Create ensemble model
ensemble = VotingClassifier(estimators=[
('svc', svc_model),
('rf', rf_model),
('lr', lr_model)
], voting='soft')

# Train ensemble model
ensemble.fit(X_train, y_train)

# Make predictions on test set
y_pred = ensemble.predict(X_test)

# Print ensemble model accuracy
print("Ensemble Accuracy:", ensemble.score(X_test, y_test))
```