

# 21bai1597-aiml-project

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AIML EVENING BATCH PROJECT

PROJECT TITLE - DIABETES PREDICTION USING ML

```
[7]: import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.ensemble import RandomForestClassifier
from sklearn.metrics import accuracy_score

# Uploading the dataset to Google Colab
from google.colab import files
uploaded = files.upload()

# Load the dataset
data = pd.read_csv('/content/diabetes.csv')

# Split the data into features and target variable
X = data.drop('Insulin', axis=1)
y = data['Insulin']

# Split the data into training and testing sets
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.2,
                                                    random_state=42)

# Create a Random Forest Classifier
model = RandomForestClassifier(random_state=42)

# Fit the model on the training data
model.fit(X_train, y_train)

# Make predictions on the testing data
y_pred = model.predict(X_test)

# Calculate the accuracy of the model
accuracy = accuracy_score(y_test, y_pred)
print("Accuracy:", accuracy)
```

```
<IPython.core.display.HTML object>  
Saving diabetes.csv to diabetes (2).csv  
Accuracy: 0.525974025974026
```

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[ ]:
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