




FRAUD TRANSACTION CLASSIFICATION

By:

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Need

- The rise of fraud cases
- Unrecoverable Costs
 - *Customers Hardship*
 - *Companies Expenses*

18% INCREASE FROM 2020

\$20 Billion

Amount of Fraud transactions

Juniper Online Payment Fraud Research

Goal

Identify

Classify fraud transactions

Take Appropriate Action to save

Data

- Vesta eCommerce Corporation
- Over 500,000 transactions
- 394 Features
 - *339 engineered by Vesta*

[Click Here For The Data From Vesta eCommerce](#)

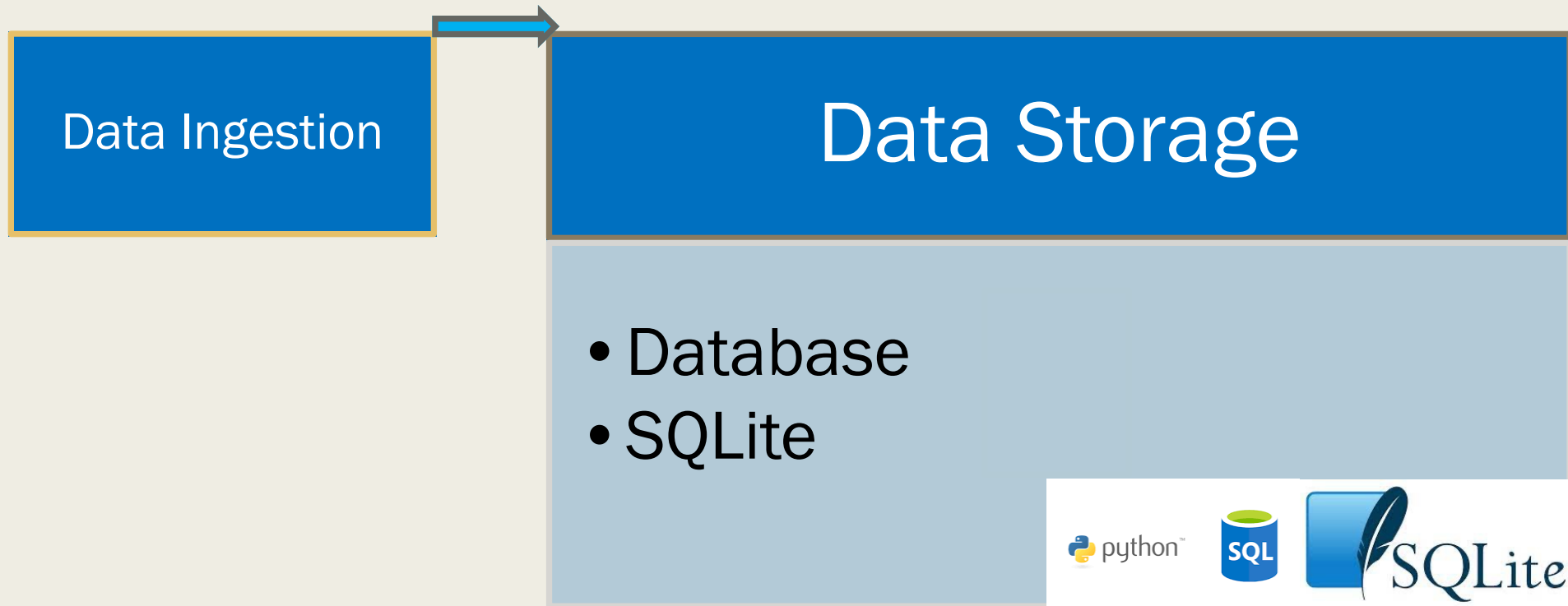
Pipeline Process

Data Ingestion

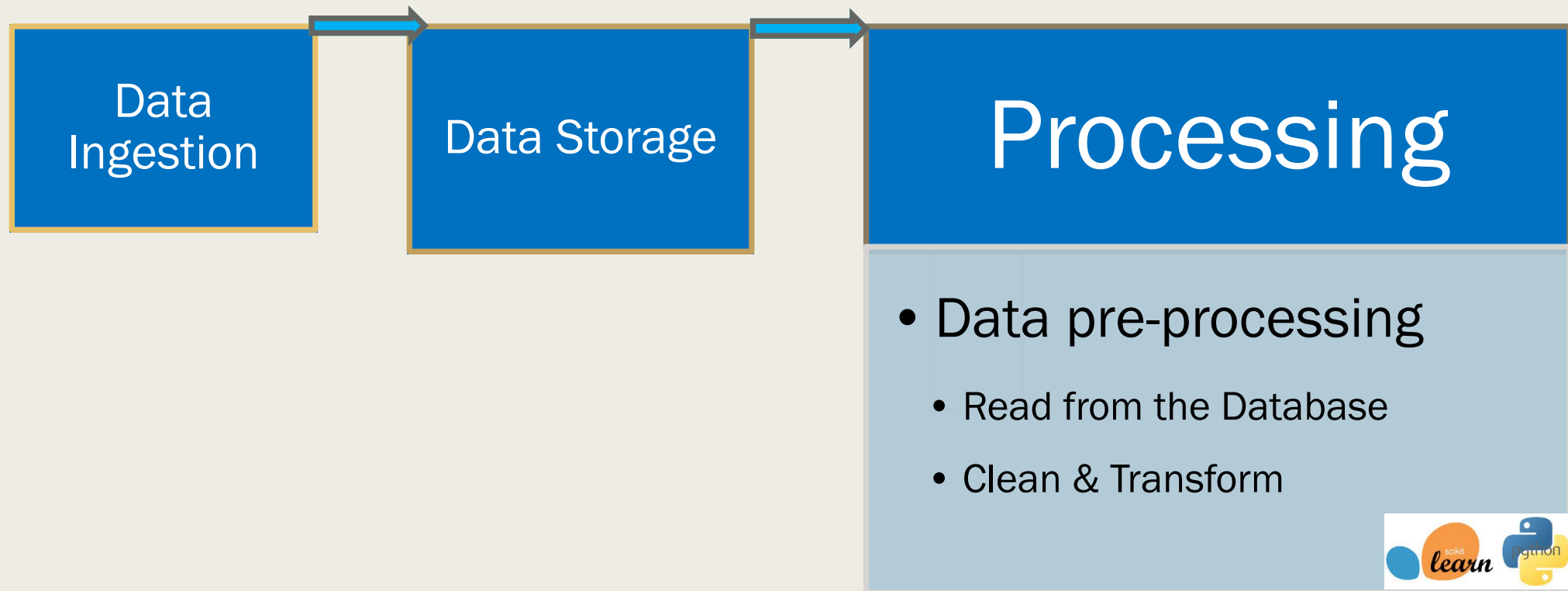
- CSV
- Multiple files



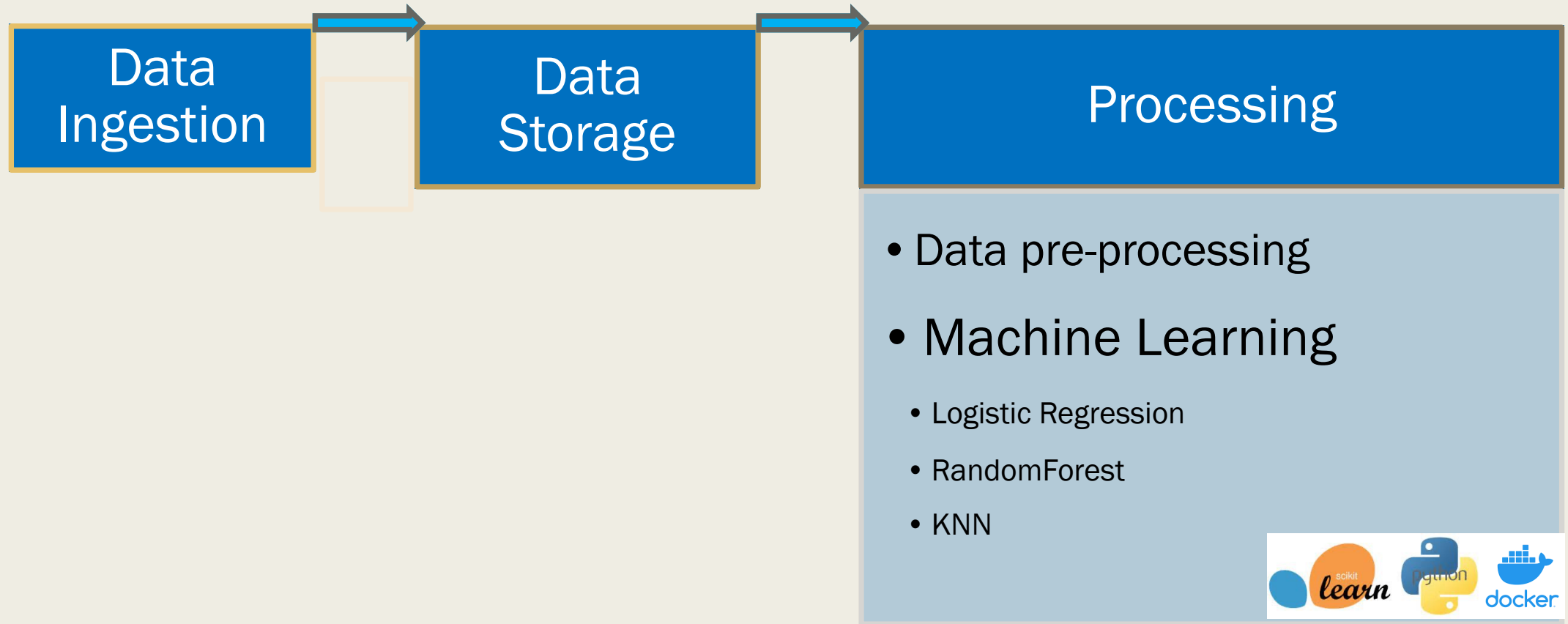
Pipeline Process



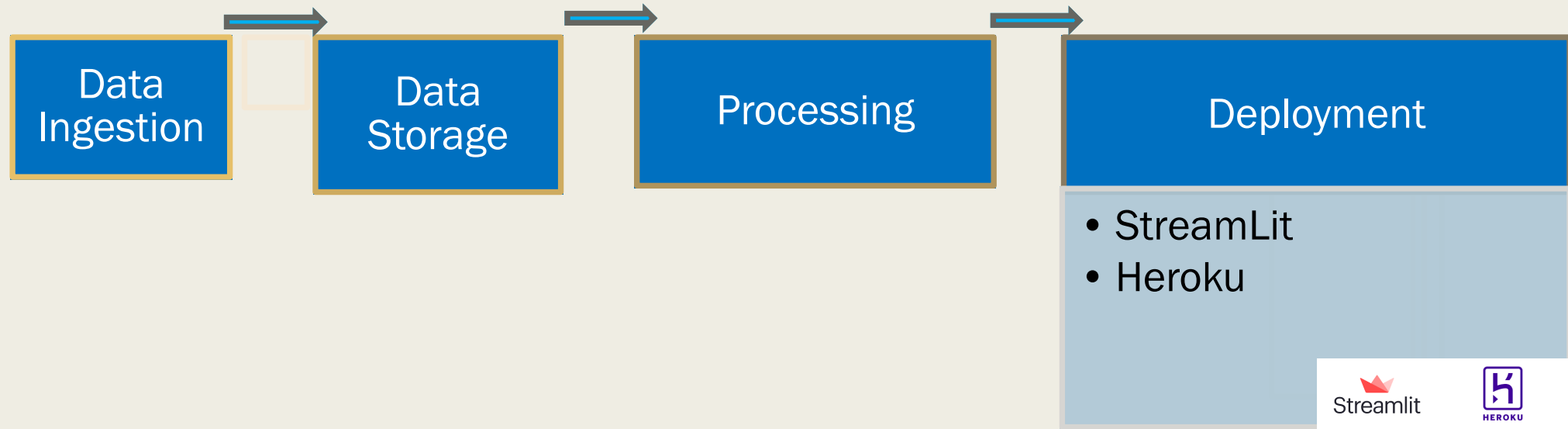
Pipeline Process



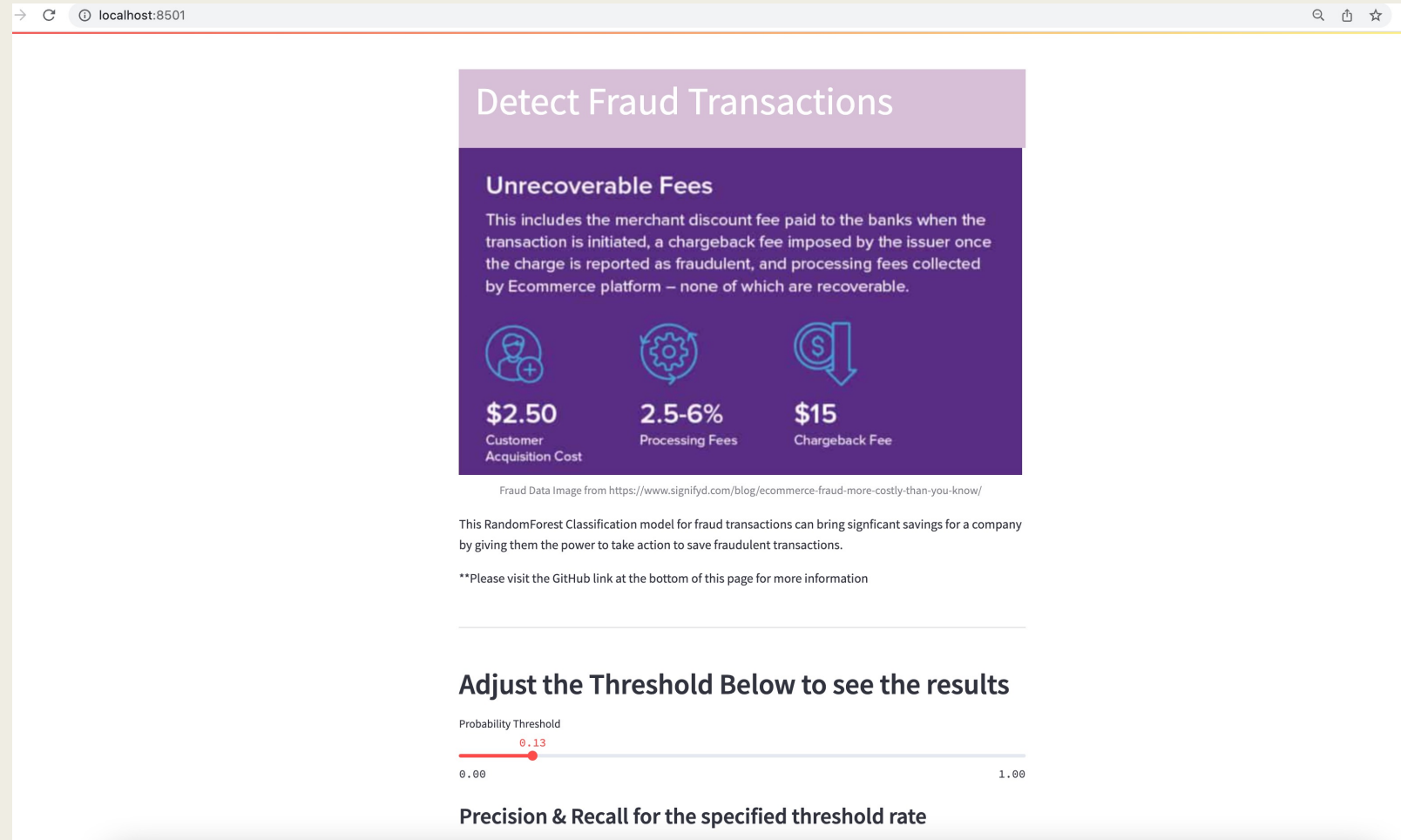
Pipeline Process



Pipeline Process



Deployment

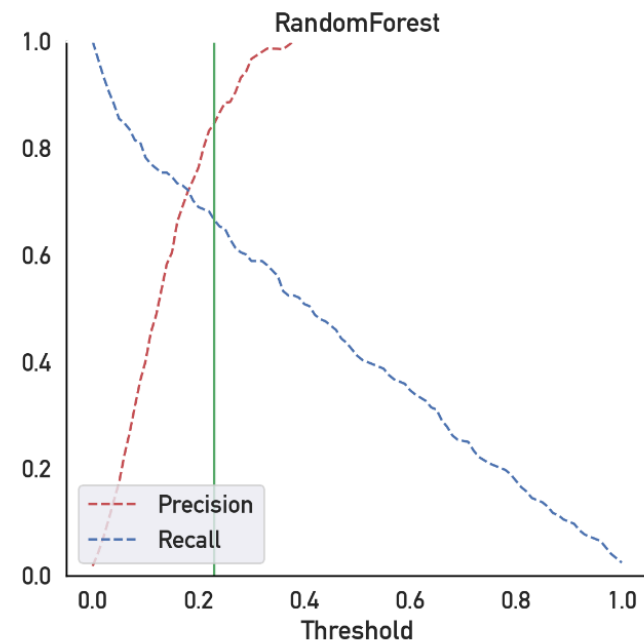


Evaluating the model

Adjust the Threshold Below to see the results



Precision & Recall for the specified threshold rate



Confusion Matrix for the specified threshold rate

		Prediction Results		
		Non-Fraud	Fraud	
Actual	Non-Fraud	13701	25	<div><div></div><div>12000</div><div>10000</div><div>8000</div><div>6000</div><div>4000</div><div>2000</div></div>
	Fraud	86	162	
		Non-Fraud	Fraud	
		Predicted		

https://github.com/kasteway/Fraud_Transaction

Made with Streamlit

Additional Work

- Allow users input
- Cloud Computing
- Show EDA results



THANK YOU!