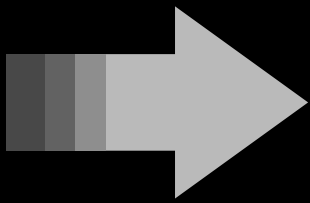


IoT Device Malware Detection with Spark Pipeline

MALWARE?



5.5B attacks in 2022

Predicted **\$8 trillion** loss in 2023

New attacks every **39 seconds**

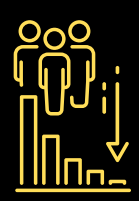
source: statista

PAIN POINT



VOLUME OF DATA

Surge in malware attacks challenge businesses in handling high volume traffic data



UNDERSTAFF IN CYBERSECURITY

69% of cybersecurity professionals believe their organization's cybersecurity team is understaffed



UNDERMINE BRAND IMAGE

Ransomware interrupts business operation and financial stability, erode business credibility and customer confidences

BENEFITS



OPERATIONAL EFFICIENCY

Pipelines to automatically analyze real time traffic data to response and recovery



REPUTATION AND TRUST

Robust cybersecurity fosters trust and upholds an organization's reputation among customers and stakeholders



AUTONOMOUS DEFENSE

Customized in-house malware detection grants heightened control, tailoring to organizational security needs

USE CASES



FINANCIAL SERVICES & BANKING

Secure credentials data to prevent fraudulent activities and avoid data breach fines



RETAIL & E-COMMERCE

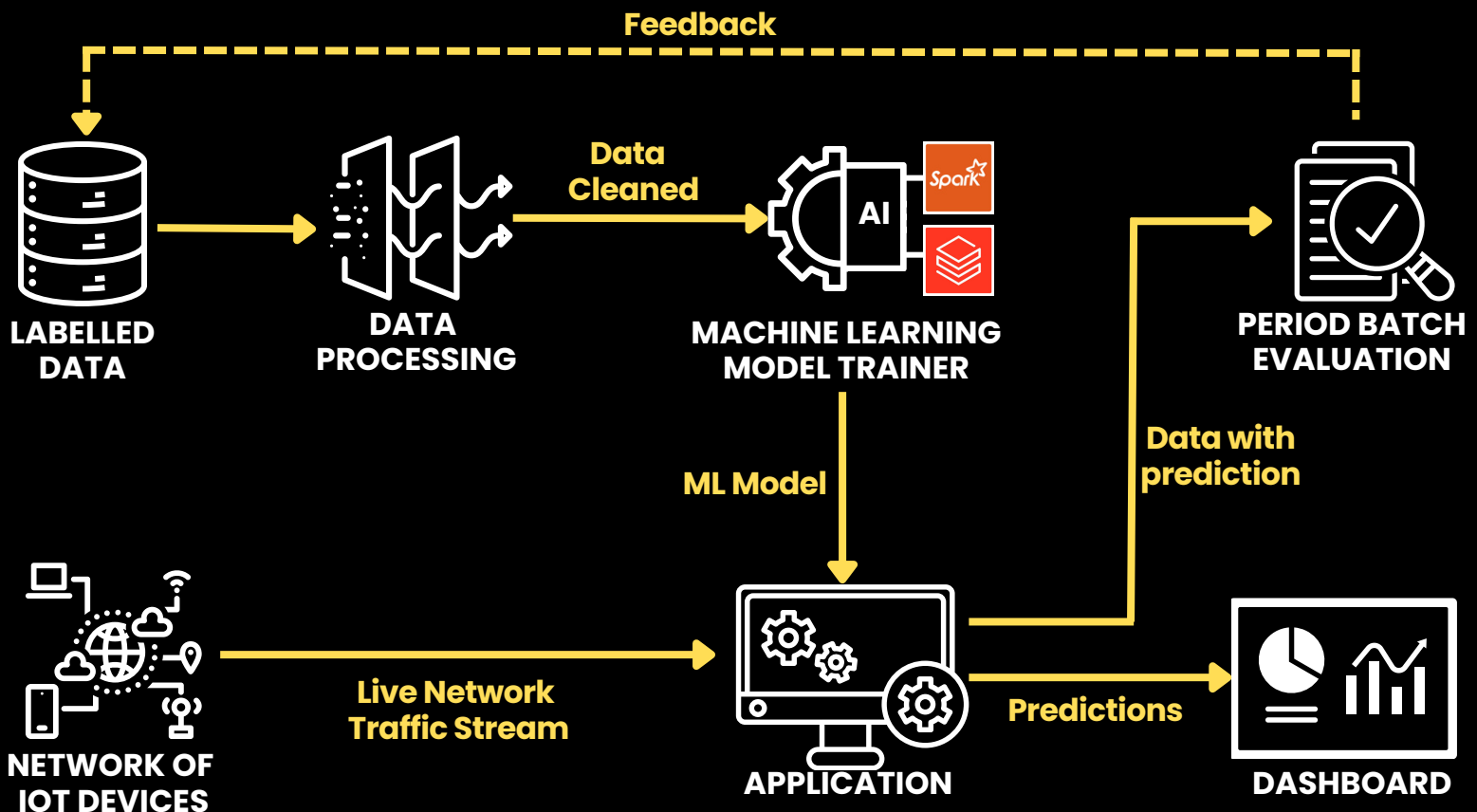
Protect brand image and financial loss by securing payment and customer information, digital gift card



HEALTHCARE SERVICES

Safeguard patient data to meet regulations and maintain functionality of medical equipments

FRAMEWORKS



CONTACTS

Rithvik Bhonagiri	bhona005@umn.edu	Rajesh Kumar Routray	routr003@umn.edu
William Lewis II	lewil779@umn.edu	Yufei Shen	shen0582@umn.edu
Claire Liu	liu02683@umn.edu	Hyemin Yu	yu015464@umn.edu