

Customs and Border Protection

Data Science and AI Use Case: AI-Driven Border Inspections

Challenge: *Customs Inspectors face an ever-increasing number of transactions at borders that they must selectively inspect to protect borders. Traditional rules-based systems for selections are outdated and do not meet performance requirements.*

Data Science Use Cases:

- Use machine learning to recommend which transactions should undergo inspection.
- Automatically retrain models to learn as more outcomes are recorded and inspectors randomly select transactions not identified by the model

Value from CP4D:

Collect: Connect and virtualize social media data, historical inspected transactions, and real time sensors and transaction attributes

Organize: Catalog structured and unstructured data sources and provide standardization steps automatically

Analyze: Train models to recommend inspections

Infuse: Deploy trained models, manage, and monitor use; track fairness and prevent bias of models for regulatory compliance. Integrate into inspector user interfaces.



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