



# New Use Cases for AI and Machine Learning in Customs

November 2024



# Large Language Models (LLMs) as **Research Assistants**



Extract facts from lots of content



Understand multiple languages and can translate



Understand computer code



Don't get bored doing repetitive tasks



Understand context and individual requirements



Process complex research tasks in under a second



# LLMs as Research Assistant for Customs' Risk Management Rules Creation

Poisonous  
Chemicals

Cleaned	Common names	Brand Names
<b>Ketamine</b>	'Special K', 'Vitamin K', 'K', 'Ket', 'Ketalar', 'Ketanest', 'Ketaset', 'Ketavet'	'Ketaset', 'Ketalar', 'Ketanest', 'Ketavet', 'Ketofol', 'Ketogesic', 'Ketopan', 'Ketophen', 'Ketorolac', 'Ketovet', 'Ketozone', 'Ketamine HCL'
<b>Cyanocobalamin</b>	'Vitamin B12', 'Cobalamin'	'Cobolin-M', 'Cyanject', 'Nascobal', 'Cyanokit', 'Cobaforte'
<b>Oxycodone</b>	'Oxy', 'Oxycotton', 'Hillbilly Heroin', 'Roxicodone', 'Percocet'	'OxyContin', 'Percodan', 'Endocet', 'OxyIR', 'Oxyfast'

CITES  
protected  
species

Latin Name	Common Names	French	Spanish	Arabic	Origin
<b>Eulampis jugularis</b>	Purple-throated Carib', Green-throated carib', 'Purple-throated carib', 'Green-throated mango'	Colibri madère	Colibrí caribeño gorgimorado	'الكاريب الأخضر الحنجرة', 'الكاريب الأرجواني الحلق', 'المانجو الأخضر الحلق'	AG, BB, BR, DM, GD, GP, MQ, MS, AN, KN, LC, VC, VI
<b>Epipedobates tricolor</b>	Phantasmal Poison Frog, Three-striped Poison Frog, 'Tricolor Poison Frog'	Epipedobate tricolore	Rana de punta de flecha tricolor, Rana tricolor ecuatoriana	'ضفدع السم ثلاثي الخطوط', 'ضفدع السم ثلاثي الألوان'	EC

# Artificial Intelligence as **Customs' Intelligence Analysts**



Perform web search for a risky transaction



Verify link between 'goods shipped' and 'nature of business'



Study shipper's current and recent historical transactions



Check outstanding legal issues or recently lost court cases



Match addresses provided with the company location



# AI as Customs' Intelligence Analyst for **Multi-Step Analysis Automation of Every Transaction**



## LangChain Software Development Framework



Intel-style analysis



Near real-time analysis



Highly degree of accuracy



No expensive data subscriptions



Multi-language capability



# Key Considerations for Implementation

**Explainability**

**Local Laws**

**Data Quality**

**Unbiased, accurate AI models**

**On-Premise**

**Rapid Technology Advances**



**1.5M+** risk indicators for Risk Management formulated by customs experts – updated using AI



Up to **70%** reduction in release times between Customs & other Government agencies



**Hundreds of Millions** in additional Customs revenue (\$) collected

مرحباً بكم في المنطقة الرقمية

# Thank You



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