

# TERMS OF REFERENCE - CONSULTANCY CONTRACT

## AI/ML engineer

**Start Date:** As soon as possible

**Duration:** 1 year consultancy contract

**Type of work:** Part time

**Consultancy fee:** Dependent on experience

## BACKGROUND

The Global Initiative Against Transnational Organized Crime (GI-TOC) is an independent civil society organization, headquartered in Geneva, Switzerland, with offices in Austria, South Africa, Colombia and Malta, and a globally dispersed Secretariat working in around 40 countries. GI-TOC comprises a network of more than 500 independent global and regional experts working on human rights, democracy, governance, and development issues where organized crime has become increasingly pertinent. GI-TOC provides a platform to promote greater debate and innovative approaches as the building blocks to an inclusive global strategy against organized crime. GI-TOC commissions and shares research globally; curates a robust resource library of 2,000 reports and tools specific to organized crime; and uses its convening power to unite both the private and public sectors against organized crime.

## JOB SUMMARY

We are looking for a AI/ML engineer to support with GI-TOC's project ECO-SOLVE: disrupting illicit environmental commodity flows through innovative activities. Environmental crime constitutes a major element of the growth in serious criminal activity and is bound up with threats to global peace and security. ECO-SOLVE has been specifically designed to address these issues and it will effectively monitor the online trade, extract useful and digestible data that can inform law enforcement and private sector action.

This NLP role focuses on work dedicated to designing and implementing the Global Monitoring System and involves working closely with a team dedicated to this goal. Though no prior experience in criminology or ecology is required, the engineer in this role will work on a variety of projects relevant to the field and will become familiar with different domains relevant to environmental organised crime.

## Main responsibilities and specific tasks

- Research, design, and develop AI and machine learning models and algorithms for various applications, including but not limited to natural language processing, image/optical recognition, recommendation systems, and predictive analytics. The machine learning scraper will mainly detect incidences of online environmental or wildlife crime and collect intelligence on key illicit online markets prevalent on social media and e-commerce sites.
- Collect, pre-process, and clean large datasets for training and validation of AI models, ensuring data quality and integrity. Optimize and improve the performance of AI models through continuous experimentation and iterative refinement to ensure the organization remains at the forefront of innovation.
- Collaborate with software engineers and data analysts to integrate AI models into research systems and applications.

## Requisite skills and experience

- Strong knowledge of techniques in machine learning, deep learning, NLP, computer vision and/or related fields.
- Solid experience with designing large scale systems dealing with high frequency and huge volumes of data.
- Familiarity with techniques and tools for crawling, extracting and processing data, and ability to quickly pick up new technologies.
- Willingness to work in “start up mode” creatively solving problems and multitasking.
- High degree of accuracy, orientation to detail, and being organized is essential.
- Good level of written and spoken English.
- A degree or equivalent in computer science or highly related field such as information systems, computer engineering, etc.

GI-TOC operates a flexible working environment and encourages staff to achieve a suitable work life balance and supports professional development and learning.

Please send your cv together with a cover letter and contact information of three professional references to the following e-mail: **jobs@globalinitiative.net** by 1 November 2023. Please put “AI/ML Engineer position” in the subject line. Please note that in adherence to our recruitment process, this job position will be filled on a rolling basis, commencing immediately upon the identification of a suitable candidate.

**Only short-listed candidates will be contacted.**

