

## Participation de MOULAY Yasser

### AI for smarter and streamlined trade-ENSIAS Challenge

#### Contact

**Nom et prénom**

MOULAY Yasser

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**Profil**

Etudiant

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**Pays de résidence**

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**Nationalité**

Morocco

**École**

ENSIAS - École Nationale Supérieure d'Informatique et d'Analyse des Systèmes - 2025 /  
2026

**Compétences**

DATA AND SOFTWARE SCIENCES

**Formation**

Ingénieur d'informatique

## **Étape: Idéation**

Statut: En cours

Date de soumission: 31-01-26 20:51

### **Question: Year of study**

Réponse: first year

### **Question: Brief Overview of Your Idea**

Réponse: PortNet HARPON is an AI-powered Decision Support System (DSS) designed to solve the customs asphyxia caused by manual inspections. Instead of relying on random checks, HARPON audits 100% of document flows using a triple-engine approach: Forensic Analysis (Benford's Law) for fake invoices, Anomaly Detection (Isolation Forest) for atypical cargo, and Graph Mining (Louvain Algorithm) to uncover organized fraud rings. The system delivers an instant risk score, a visual "Evidence Pack," and an actionable recommendation (Inspect/Release) in under 1 second. This transforms customs from a bottleneck into a smart filter, securing borders while accelerating legitimate trade.

### **Question: Why do you want to participate in this challenge?**

Réponse: As ENSIAS Data Engineering students, we want to tackle a strategic national challenge: transforming Morocco into Africa's premier smart logistics hub. We believe the current manual inspection bottleneck requires a radical technological leap. We are participating to prove that our solution, PortNet HARPON, can effectively resolve the trade-off between security and speed using advanced Forensic AI, bridging the gap between academic excellence and operational reality.

### **Question: Email Address**

Réponse: yassermoulaysm@gmail.com

### **Question: University field**

Réponse: ENSIAS - École Nationale Supérieure d'Informatique et d'Analyse des Systèmes

### **Question: What are your expectations from this challenge?**

Réponse: We expect to challenge our architecture against the expertise of PortNet mentors. We are looking for constructive feedback on the explainability of our AI for customs agents. Ultimately, our goal is to validate the business viability of PortNet HARPON and leave this

challenge with a battle-tested roadmap to turn this MVP into a deployable solution that accelerates Morocco's foreign trade.

**Question: Name of Participation**

Réponse: PortNet HARPON

**Question: Full Name**

Réponse: Yasser MOULAY

**Question: How many members are in your team?Please describe each member's relevant experience in AI projects, or similar challenges. (Max 150 words)**

Réponse: We are data and software students, combining academic excellence with practical hackathon experience.

me Yasser MOULAY, Specializes in ML Architecture & Backend. Skilled in deploying predictive models and building robust APIs. Experience in optimizing algorithms for real-time processing.

my colleague Goumi Soumiya, Focuses on Data Visualization and Frontend. Expert in translating complex analytical results into intuitive dashboards for decision-making.

Together, we cover the entire pipeline required for PortNet HARPON: from mathematical modeling to a user-centric interface that empowers customs officers.

**Question: Gender(Male/Female)**

Réponse: Male

**Question: Write your theme**

Réponse: Thème 4 : Renforcer la transparence et la conformité du commerce international grâce à l'IA

**Question: Phone Number**

Réponse: 00212632995015