



ER Triage Assistant



Summary: Students will learn how ER triage prioritizes patients based on urgency using the ATS framework and the ABCDE approach. Through case scenarios, they will manually assign triage categories, then use Intel AI Playground to run AI models locally and test triage support using a RAG knowledge base. They will explore healthcare data sovereignty and privacy, evaluate AI rule-following, and reflect on human responsibility.

Key Concepts

ER Triage Scale,
RAG, NLP
(Prompting)

Software

Intel AI Playground

Instructional Objectives

Learners will be able to:

1. Explain ER triage, apply the ATS scale, and use the ABCDE approach in scenarios.
2. Describe healthcare data privacy and sovereignty when using AI in healthcare decisions.
3. Use Intel AI Playground to run a local RAG model for triage assistance.
4. Assess AI-generated triage recommendations for adherence to rules and accuracy.

Learning Outcomes

Students will be able to perform basic triage classification using ATS principles, explain why privacy-safe local AI is needed in healthcare, and critically assess AI outputs using structured rules.

Real World Application

Students will learn how ER triage prioritizes emergencies and how a local RAG model-based AI can support decisions while protecting sensitive healthcare data.

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1. Lesson Overview

	Activity	Innovation Skill
Introduction (15 min) Slides 1 – 10	Contrast everyday AI use with healthcare urgency scenarios to highlight sensitive data needs and introduce ER triage prioritization.	Design Thinking (Empathize)
Development (100 min) Slides 11 – 34	Learn the ER triage process and ATS priority rules, then apply the triage scale to real scenarios using the worksheet and reflect on privacy, urgency, and human accountability. Set up a privacy-safe local AI workflow using Intel AI Playground, add a RAG knowledge base, test triage scenarios, compare AI vs manual outputs, and refine results using prompt guardrails.	AI & Machine Learning (Natural Language Processing)
Conclusion (05 min) Slides 35 – 39	Students reflect on manual vs AI triage outcomes, share learnings, summarize key takeaways, and conclude that AI can speed up support, but human oversight and accountability remain essential.	

