



# AI-assisted Kaggle Hackathon by IAA

## Reflections and Learning in Advancing Actuarial Competency

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# IAA AI Taskforce - Introduction

## Strategic Objectives

- Advance profession competency by creating awareness of risks/opportunities, knowledge sharing, and education.
- Promote and raise the profile of the actuarial role in existing and emerging wider fields.
- Prepare the IAA to engage with Supranational organizations on AI-related risks and initiatives.

### Workstream 1

Engagement and Foundations

### Workstream 2

Research and Advancement

### Workstream 3

Case Studies and Tools

### Workstream 4

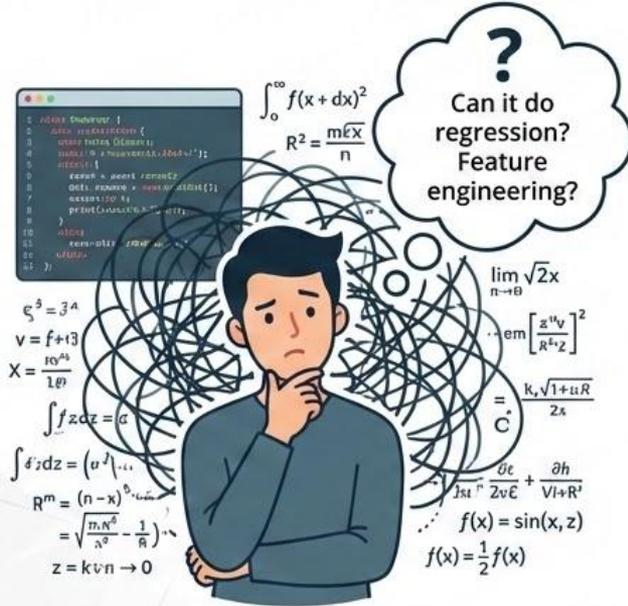
Adoption Framework

Focuses on generating interest in AI within the actuarial community and helping actuaries get started in the space.



- Community building
- Competition
- Quick resources

# Why AI-assisted hackathon?



AI as a **GUIDE**:  
Transforming  
the Process.



**PREVIOUSLY:**  
Focus on Coding Skills.

**REALIZATION:** Focus on Thinking,  
Learning, & Solving Problems.

# Hackathon - format & participation



Model Performance (RMSLE)	30%
Creative Use of AI Tools	30%
Interpretability & Explanation	20%
Code/Prompt Documentation & Reproducibility	20%

## Notes for Participants

GenAI is your Co-pilot: You don't need to write every line of code from scratch. Show us how AI helped you think, explore, and build.

# AI Levelled the Playing Field — So What Now Differentiates?

## THE NEW BASELINE

*Almost all participants were able to apply advanced modelling techniques.*

- Regression & Ensemble methods, Hyperparameter tuning
- Done with guidance from AI
- Even by those with less coding background

**Techniques that used to differentiate people... became the *new baseline*.**

## AI-ASSISTED SCREENING

*We used AI to help us evaluate submissions and separate the signal from noise.*

- Identify **minimum standard**
- Highlight **thoughtful approaches**
- Surface **differences in reasoning**

**AI helped us separate *competent* vs. *exceptional*.**

## THE DIFFERENTIATORS

### 1. AI partnering

Feature engineering & challenging assumptions. Prompting techniques.

### 2. Depth of Thinking

Reasoning behind model & variable selection.

### 3. Storytelling

Clear business interpretation & explanations.

**When AI raises the floor, the winners are those who raise the ceiling.**

# Reflection: What this means for the future actuarial skillset



## AI Collaboration

Transition from technical users to **strong collaborators**. Focus on directing AI and reviewing outputs rather than just executing tasks.



## Strategic Clarity

**Communication & Explanation** are paramount. Translating complex AI models into business value is the new differentiator.



## Human Judgment

**Actuarial judgment** remains central. Prudence and domain expertise are required to verify AI-assisted reasoning.



**THANK YOU**