

## UHR Conference 2025

Online 13 - 15 May

#UHR25 #UHRawards25 #workwithUHR





# An Al Adventure: Harnessing Artificial Intelligence for Job Evaluation

14<sup>th</sup> May 2025

## Why we started this journey

### **⊗** Goal

See how AI could make job evaluation faster, fairer, and less manual in HE — and beyond.

### **6** What We Hoped For

- •Fair, consistent results
- Faster evaluations
- •Free up HR to focus on people, not paperwork

### What Stood in the Way

- Getting funding for innovation
- Navigating Intellectual Property and data concerns



"Research is an adventure" – Professor Yanguo Jing

Dean of the Faculty of Business, Computing and Digital Industries

















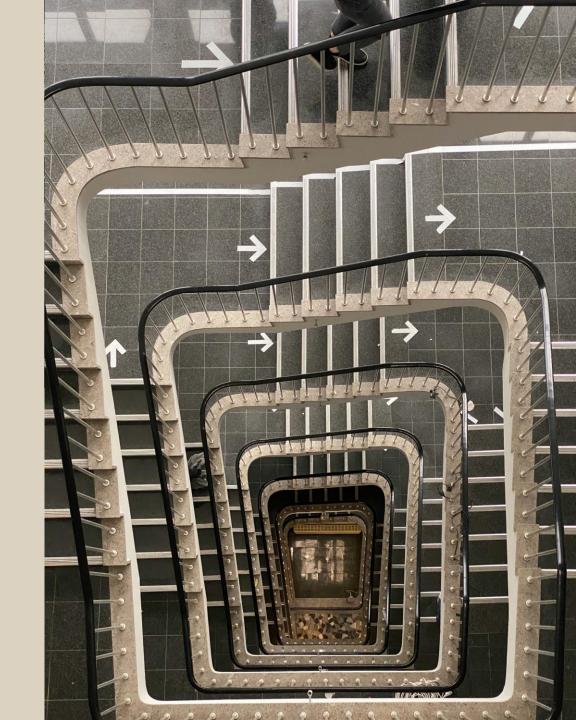






# Why did the collaboration work?

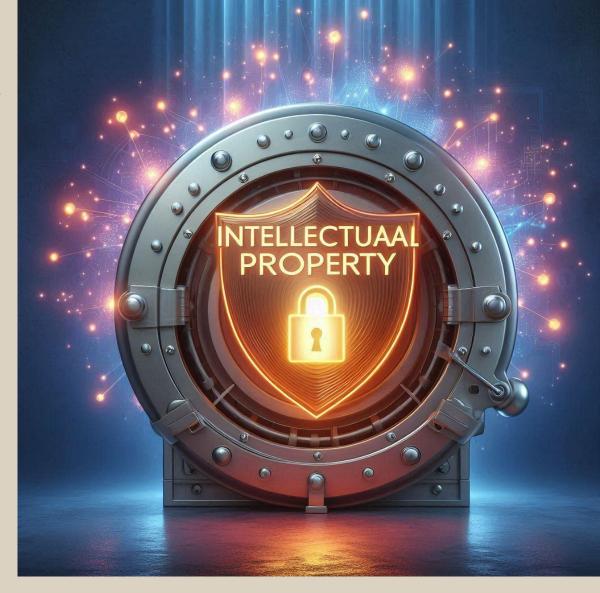
1. Alignment of values





## Why did the collaboration work?

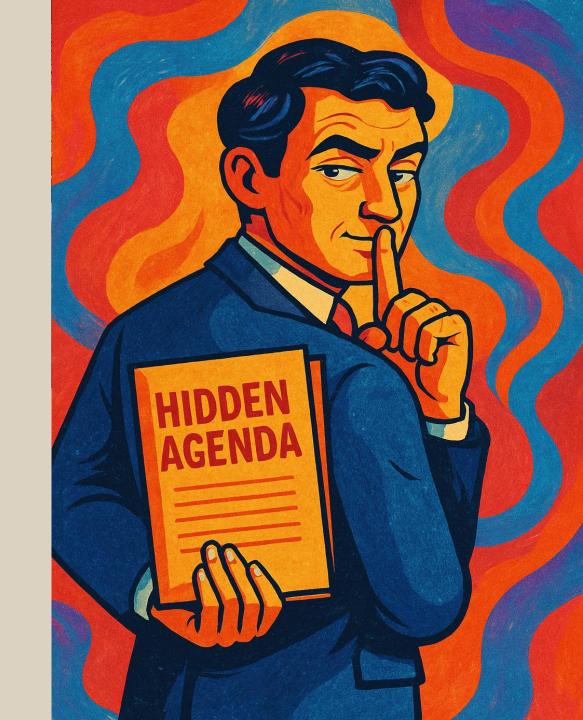
- 1. Alignment of values
- 2. Identified and dealt with concerns





## Why did the collaboration work?

- 1. Alignment of values
- 2. Identified and dealt with concerns
- 3. No hidden agendas





## How we built the LTU BOT

### **User friendly platform**

Built a simple web tool to interact with the Al

#### **Smart data**

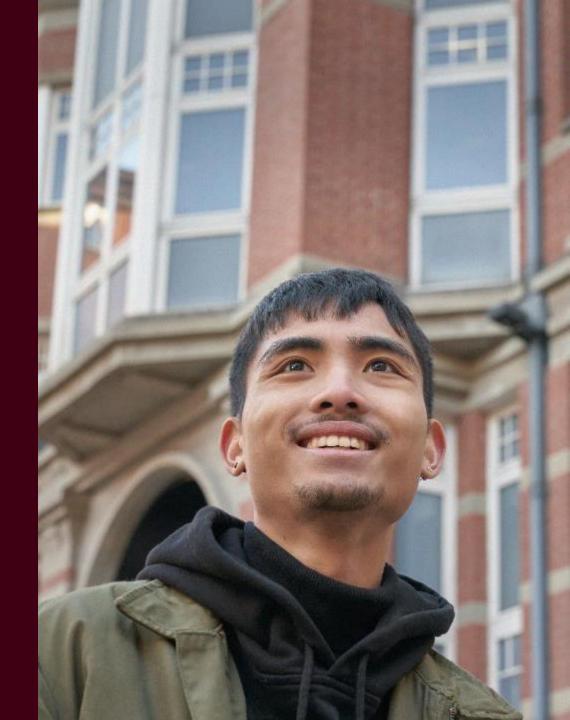
Collected and labelled 126 job descriptions using HERA element

### Al training

Used ChatGPT to learn how to match descriptions to evaluation criteria

#### **Live Demo**

Created a working prototype to showcase the tool's potential





## How Al evaluates jobs

Each JD goes through 14 AI models, one per HERA element



The AI gives grades (A-E) which are fed into the ECC portal



Final Result = job grade recommendation

#### SINGLE RESPONSE

Sensory & Physical Demands
Knowledge & Experience

#### LINEAR RESPONSE

Communication

Pastoral Care & Welfare

Team Development

#### **MATRIX RESPONSE**

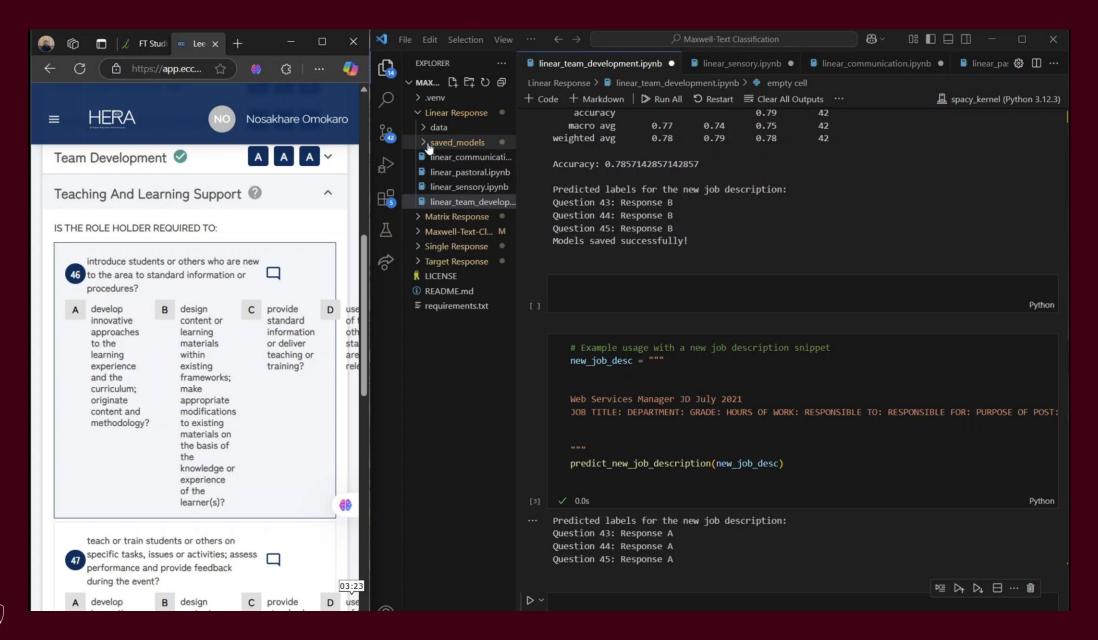
Liaison & Networking
Decision Making
Teaching & Learning Support

#### TARGET RESPONSE

Teamwork & Motivation
Service Delivery
Planning & Organising
Initiative & Problem Solving
Analysis & Research
Work Environment

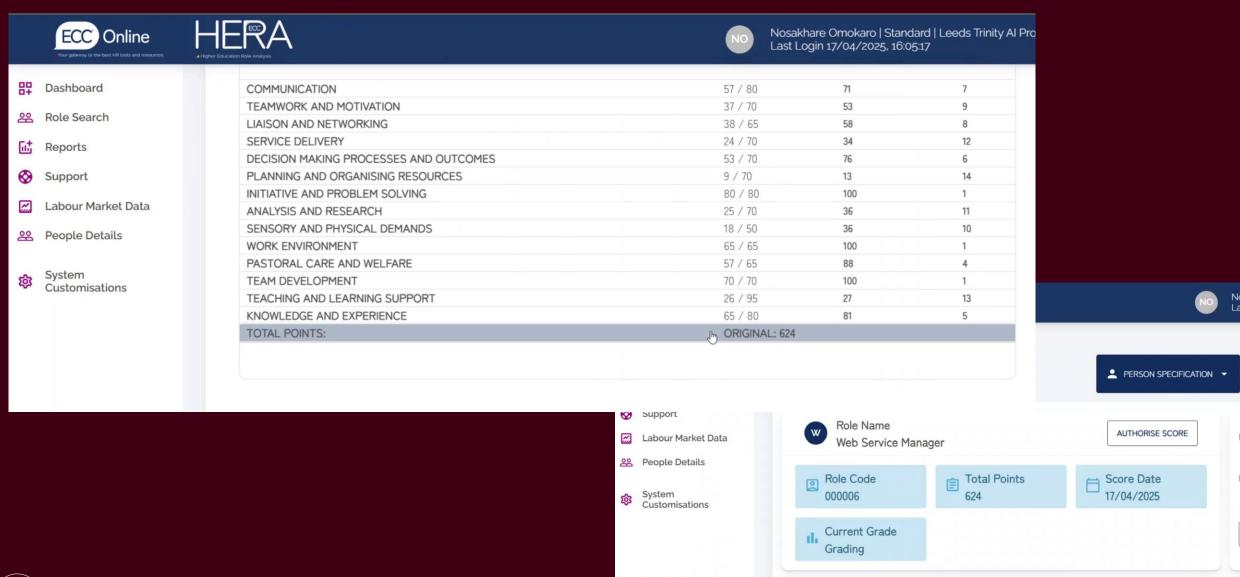


### Demo

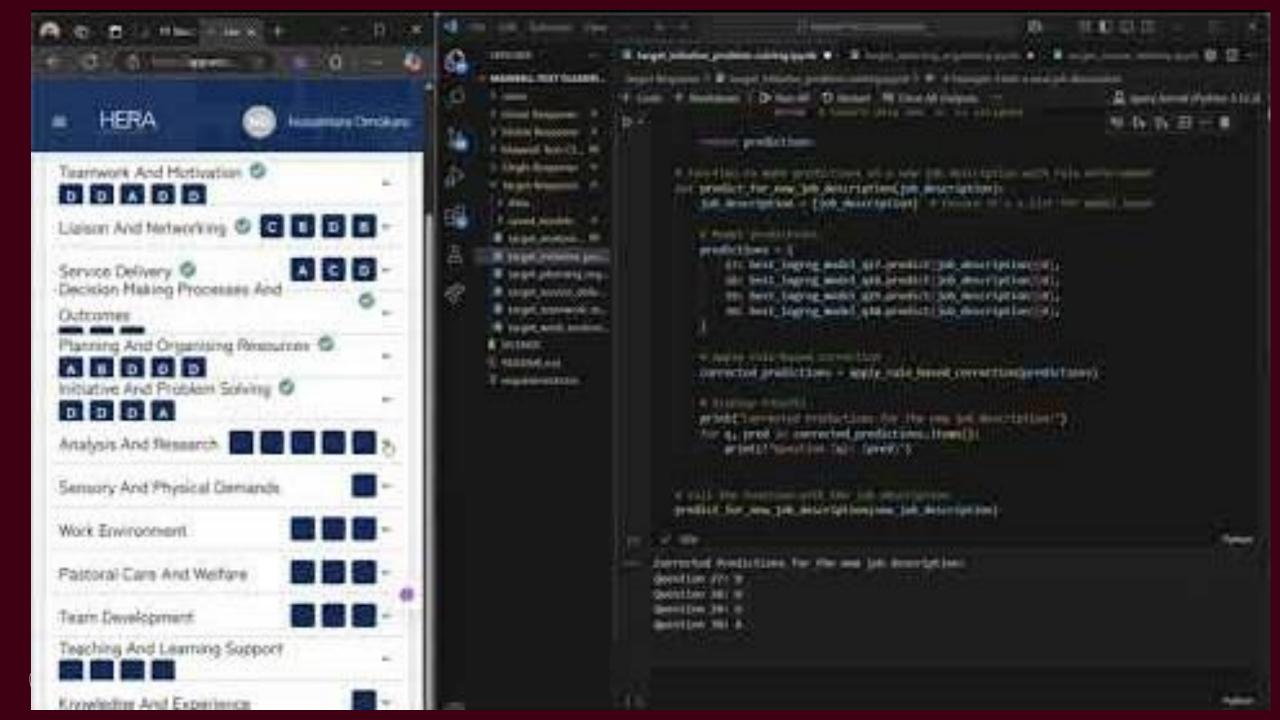




## Demo (Cont.)







# Is the Al getting it right?

We tested the AI on 50 job descriptions.

Compared its answers to expert evaluations for all 14 HERA elements.

Result: Accuracy exceeded 70% — a solid benchmark for real-world use.

A strong foundation for expanding to other roles and sectors.





## **Evaluation of the project**

- Establish the ongoing human input required with access to the BOT
- Elimination of bias in the job evaluation process through application of the BOT
- Replication of the Al tool to be used by other organisations
- Enhance the learning experience and employability for students
- Dissemination of knowledge and learning gained from the pilot



## What we learned

- Al can boost efficiency saving time and freeing HR for higher-value work.
- Accuracy matched industry standards across all job elements.
- Cross-team collaboration (HR, AI experts, and students) led to real innovation.
- The pilot laid strong foundations, with room to grow through more data and refinement.



"Al will not replace HR, but HR using Al will thrive"



## Potential next steps



Train the LTU BOT

Improve accuracy
Eliminate bias further



Create and train another HE BOT

To prove can be used across the sector



Create and train another sector BOT

To prove AI can be used on different job evaluation methodology



Commercialisation of the product

Product available as a viable solution





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