• MSc in Mathematics • MSc in Operational Research and Applied Statistics
• MSc in Operational Research, Applied Statistics and Risk
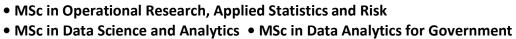**• MSc in Data Science and Analytics • MSc in Data Analytics for Government**

MAT099/98 - MSc Dissertation Brief

Dissertation title:	125 – 126 Agentic-AI to optimise expense submission process
Sponsor organisation: *(or Cardiff University Internal)*	Clarasys
Sponsor Supervisor:	Ola Summersell

The Organisation	Clarasys
Background	Our expenses process is not very complex, however, it takes time that can be spent on other activities. We use Kimble (an add on to SF) and are hoping an image recognition combined with agentic AI could streamline the process.
Objectives	To reduce the time needed to correctly submit expenses
Key Words Associated with the topic. *(Please select only up to 4 key words)*	AI (Artificial Intelligence);Machine learning;Optimisation;
Deliverables	A simple application (agentic-AI?) to allow a fast expense submission
Location of dissertation topic provider.	London
Key computing skills required from Student	Not sure
Other key Student competencies	coding, agentic-AI, communication
Data availability	expense categories etc
Cardiff University Collaboration / Non-Disclosure Agreement (NDA) Required? *(Be advised: Cardiff University will be using Adobe Sign to complete these NDA Contracts between external companies, the student and the University).*	Yes
Is there any Identifiable Personal Data (IPD) sharing between parties?	
Ethics: *(*Click for further information)*	

• MSc in Mathematics • MSc in Operational Research and Applied Statistics
• MSc in Operational Research, Applied Statistics and Risk
• MSc in Data Science and Analytics • MSc in Data Analytics for Government

Will the research project involve human participants, human data or human tissue*.	No, none of these
If the project involves human data, will it be anonymised before the student has access to it?	N/A
If yes to the above, will the student, supervisor or anyone else at Cardiff University have the key to unscramble the anonymised data?	
CARDIFF UNIVERSITY USE ONLY: **Outcome of Ethics Committee check; Does this topic require Cardiff University Ethical Consideration?**	**CARDIFF UNIVERSITY USE ONLY:** **Yes - ☐ No - ☒**
Ability to take more than one student on this dissertation topic? **(If yes, how many students for this dissertation topic?)**	Yes - 2
Are you able to accept International Students? *(Students will be based in the UK whilst completing their dissertation, however some students will be Home students and some will be International Students studying on a VISA).*	Yes
How long is your 'Onboarding Process' if applicable? *(How long will it take for your administrative tasks to be completed to prepare for the students and be ready to work with your company and any data that you may be providing them? The students have time restrictions and will need to start their dissertation on a prompt given date.)*	N/A
Are you able to accept students to start working on this project in September <u>as well as June</u>, and potentially both? *(Some students may have additional exams they need to complete in August and will start their dissertations in September instead. For example; You could potentially have 2 students starting with you in June and an additional 2 starting in September, at the point that the first 2 students will be completing their dissertations.)*	June

• MSc in Mathematics • MSc in Operational Research and Applied Statistics
• MSc in Operational Research, Applied Statistics and Risk
• MSc in Data Science and Analytics • MSc in Data Analytics for Government

Any other comments	

Research Integrity and Ethics

Cardiff University support researchers to achieve the highest standards of research integrity in all research activity.

Research integrity is vital to the future prosperity of academic research. It is only through observing the highest standards of research integrity that we can truly achieve research excellence in an increasingly competitive and international market.

We are committed to upholding the principles of the <u>Universities UK Concordat to Support Research Integrity</u>. We have robust systems in place to enable researchers to conduct quality research to the highest legal, ethical and professional standards.

Our <u>Research Integrity and Governance Code of Practice</u> provides a framework for good research conduct and helps researchers to meet legal and <u>ethical requirements</u>, whilst <u>preventing misconduct</u>.

For further information regarding this, please contact our School of Maths Ethics Team on: <u>maths-ethics@cardiff.ac.uk</u>