



Project Title: Review me if you can

Name: Dominik Pichler

Representations

(LO1) Understand and apply Knowledge Graph Embeddings	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I used KGE to learn representations of good and bad cleaning ratings from reviews.	Marked with heading.

(LO2) Understand and apply logical knowledge in KGs	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I used logic knowledge to identify high and low performance.	Marked with heading.

(LO3) Understand and apply Graph Neural Networks	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I investigated suitable methods for the project.	Marked with heading.

(LO4) Compare different Knowledge Graph data models from the database, semantic web, machine learning and data science communities.	<input type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency



Systems

(LO5) Design and implement architectures of a Knowledge Graph	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I designed a domain specific architecture for the project.	Marked with heading.

(LO6) Describe and apply scalable reasoning methods in Knowledge Graphs	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I designed cypher queries that are scalable and built an infrastructure that allows the project to be easily deployed to a scalable infrastructure easily.	Marked with heading.

(LO7) Apply a system to create a Knowledge Graph	<input type="checkbox"/> I showed basic proficiency <input checked="" type="checkbox"/> exceeded basic proficiency
Here I'd like to refer to the built architecture in Figure 1.	Marked with heading.

(LO8) Apply a system to evolve a Knowledge Graph	<input type="checkbox"/> I showed basic proficiency <input checked="" type="checkbox"/> exceeded basic proficiency
Here I'd like to refer to the built architecture in Figure 1.	Marked with heading.



Applications

(LO9) Describe and design real-world applications of Knowledge Graphs	<input type="checkbox"/> I showed basic proficiency <input checked="" type="checkbox"/> exceeded basic proficiency
I addressed this by building an entire performance evaluation system mentioned in the introduction.	Marked with heading.

(LO10) Describe financial Knowledge Graph applications	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I addressed this LO by reflecting on my work experience in fraud detection.	Marked with heading.

(LO11) Apply a system to provide services through a Knowledge Graph	<input type="checkbox"/> I showed basic proficiency <input checked="" type="checkbox"/> exceeded basic proficiency
I addressed this by building an entire performance evaluation system mentioned in the introduction.	Marked with heading.

(LO12) Describe the connections between Knowledge Graphs (KGs), Machine Learning (ML) and Artificial Intelligence (AI)	<input checked="" type="checkbox"/> I showed basic proficiency <input type="checkbox"/> exceeded basic proficiency
I addressed this by highlighting difference connections inside and outside of my project.	Marked with heading.



Additional Information

HAS NO EFFECT ON MARKING!

(please fill it out honestly, even if it is less than what is suggested in the ECTS breakdown – you are not judged on time spent!)

How many hours did you spend on your mini-project ? (the ECTS breakdown suggests 40 hours for this)	70 hours
--	----------

* please exclude any hours you spent on parts reused from other courses

How many hours did you spend on your portfolio document preparation (this PDF) ? (the ECTS breakdown suggests 15 hours for this)	16 hours
---	----------

* please exclude any hours you spent on parts reused from other courses

Please indicate if you have reused parts of the mini-project from other courses	<input type="checkbox"/> I reused some parts: <XX>% of the mini-project
<If this is the case, please describe here what parts you reused and how you adapted them. Note that this is perfectly fine if you did so and has no effect on marking!>	

Please indicate if you have reused parts of the portfolio document from other courses	<input type="checkbox"/> I reused some parts: <XX>% of this document
<If this is the case, please describe here what parts you reused and how you adapted them. Note that this is perfectly fine if you did so and has no effect on marking! To avoid (self-)plagiarism, do not forget to also cite appropriately in this document.>	

Declaration

I have marked all parts generated by Generative AI (e.g., ChatGPT) and given any prompt I used either in a footnote or in an appendix making clear which parts are generated by which prompts or similar.	<input checked="" type="checkbox"/> I confirm this
---	--