

# MSIS 549 HW2 — Compliance Checklist

**Assignment:** Agentic AI for Real-World Impact **Student:** Taashi Manyanga **Course:** MSIS 549 B — AI and GenAI for Business Applications **Instructor:** Prof. Léonard Boussioux **Date:** February 2026 **Total Points Available:** 15 + 2 bonus

## Deliverables Checklist

Required Deliverable	Status	Location
System Artifact (shareable link)	<input checked="" type="checkbox"/> COMPLETE	<a href="https://github.com/taashim-eng/linkedin-thought-leadership-agent">https://github.com/taashim-eng/linkedin-thought-leadership-agent</a>
Tutorial Write-up (PDF)	<input checked="" type="checkbox"/> COMPLETE	TUTORIAL_WRITEUP.pdf
Benchmark Appendix	<input checked="" type="checkbox"/> COMPLETE	benchmark/BENCHMARK_APPENDIX.md
[Optional] Demo Recording	<input type="checkbox"/> NOT SUBMITTED	Not recorded — see note below

**Demo Note:** A live test run was executed on 2026-02-11 with the topic "IT Moving from AI Chatbot to Dev Tool." Week 1 was published live to LinkedIn (URN: urn:li:share:7430329696413843458). A screen recording of this session was not captured. If submitting, recommend recording a walkthrough of the GitHub repo + archive file as a substitute.

## Grading Rubric — Self-Assessment

### Category 1: Problem Selection (1 pt)

**Requirement:** Workflow is genuinely meaningful to you/your context with clear justification

Check	Evidence	Status
Real workflow (not fictional)	LinkedIn thought leadership is explicitly listed in the assignment examples ("Drafting and iterating LinkedIn posts")	<input checked="" type="checkbox"/>
Meaningful to personal context	Section 1 of Tutorial explains the personal pain point: leaders have expertise but can't maintain consistent LinkedIn presence due to overhead of planning a cohesive series	<input checked="" type="checkbox"/>
Can be run at least twice on real inputs	Run 1: SQL Query Performance. Run 2: Data Cleanliness. Run 3: AI Chatbot to Dev Tool (live published, Feb 2026). Run 4: Agentic AI for Data Engineering (all 6 published, Feb 2026)	<input checked="" type="checkbox"/>
Clear justification for agentic approach	Tutorial §1.2: explains why single-prompt LLM fails (generic, disconnected) vs. multi-stage pipeline (authentic, cohesive)	<input checked="" type="checkbox"/>

**Self-Score: Excellent (1/1)**

### Category 2: System Design (4 pts)

**Requirement:** Distinct agents/nodes/skills with clear roles, logical flow, and thoughtful integration

Check	Evidence	Status
Minimum 3 distinct components	9 skills, each with a single distinct responsibility (verified by Skill 0-8 files)	<input checked="" type="checkbox"/>

Clear roles — no overlap	Skills are separated by concern: interview (1), planning (2), drafting (3), voice (4), format (5), evaluate (6), archive (7), publish (8)	<input checked="" type="checkbox"/>
Logical flow	Sequential pipeline with explicit phase gating documented in Skill 0 and Tutorial §2.3	<input checked="" type="checkbox"/>
Thoughtful integration	HITL checkpoints with routing logic (voice issue → Skill 4, structure → Skill 3). State management documented.	<input checked="" type="checkbox"/>
Architecture diagram	<a href="#">diagrams/architecture_infographic.html</a> — A4 landscape reference architecture	<input checked="" type="checkbox"/>
Pipeline flow diagram	ASCII flow diagram in Tutorial §2.3 + Design Document §5	<input checked="" type="checkbox"/>

**Self-Score: Excellent (4/4)**

---

### Category 3: Implementation Quality (3 pts)

**Requirement:** Runs end-to-end reliably, outputs are usable and well-formatted. Prompts are well-structured with at least one meaningful iteration and honest critique.

Check	Evidence	Status
Runs end-to-end	4 complete runs documented (SQL, Data Cleanliness, AI Chatbot to Dev Tool, Agentic AI for Data Eng.)	<input checked="" type="checkbox"/>
Usable, well-formatted outputs	<a href="#">outputs/Q1_2026_SQL_Performance_Series.md</a> , <a href="#">outputs/test_run_AI_Dev_Tool_Series.md</a> — 6 ready-to-post LinkedIn posts per run	<input checked="" type="checkbox"/>
Prompts well-structured	Each skill has: name, purpose, inputs, outputs, step-by-step workflow, constraints, failure modes, examples	<input checked="" type="checkbox"/>
At least one meaningful prompt iteration	Tutorial §4.1: Voice Refiner iterated 3 times (v1: "sound professional" → v2: named patterns → v3: detection table). Voice score jumped from 3.0 to 4.7	<input checked="" type="checkbox"/>
Honest critique of prompt quality	Tutorial §4.3: explicit strengths and weaknesses. Identifies hard-coded voice profile and vague input dependency as weaknesses	<input checked="" type="checkbox"/>

**Self-Score: Excellent (3/3)**

---

### Category 4: Real Usage + Iteration (2 pts)

**Requirement:** Clear evidence of 2+ real runs with documented changes and reflections

Check	Evidence	Status
2+ real runs	Run 1 (SQL), Run 2 (Data Cleanliness), Run 3 (AI Chatbot, live published), Run 4 (Agentic AI, all 6 published)	<input checked="" type="checkbox"/>
Inputs documented	Topic, audience, anecdote, CTA, tone documented for each run in archives and Tutorial §5	<input checked="" type="checkbox"/>
Outputs documented	Full 6-post series outputs saved in <code>outputs/</code> directory	<input checked="" type="checkbox"/>
Changes after first run	Tutorial §5.1: added "In the era of AI" to banned list; added system diagram suggestion to Skill 5; revised Week 5 draft	<input checked="" type="checkbox"/>
Changes after second run	Tutorial §5.2: added CTA pushback prompt to Skill 1; noted Week 5 vision weakness for future improvement	<input checked="" type="checkbox"/>

Whether system helped	Tutorial §7 "Would I keep using this?": Yes — saves 4-5 hours per series, more cohesive than scattered sessions	<input checked="" type="checkbox"/>
Where it failed/slowed	Tutorial §7 "What Didn't Work": Week 5 generic, voice profile one-size-fits-all, no multi-format output	<input checked="" type="checkbox"/>

**Self-Score: Excellent (2/2)**

---

## Category 5: Tutorial Writing Overall Quality (3 pts)

**Requirement:** Clear, well-structured, genuinely replicable — covers problem statement, building process, prompts, and benchmarking

Check	Evidence	Status
Replicable by a new reader	Tutorial §8 "How to Replicate": prerequisites, 9 numbered steps, MCP setup instructions	<input checked="" type="checkbox"/>
Problem statement	Tutorial §1: pain point, current status quo, why agentic, tech stack	<input checked="" type="checkbox"/>
Building process documented	Tutorial §3: tools & timeline table, 3 key bottlenecks, decisions made	<input checked="" type="checkbox"/>
Prompts documented	Tutorial §4: exact prompts shown for Skills 2 and 4, before/after iterations	<input checked="" type="checkbox"/>
Benchmarking	Tutorial §6: methodology, summary table, 4 key revelations	<input checked="" type="checkbox"/>
Figures and links	Architecture infographic, ASCII flow, benchmarking table, GitHub link	<input checked="" type="checkbox"/>
Honest discussion of bottlenecks	Tutorial §3.2: 3 explicit bottlenecks with root causes and fixes	<input checked="" type="checkbox"/>
Submitted as PDF	TUTORIAL_WRITEUP.pdf generated via md-to-pdf	<input checked="" type="checkbox"/>

**Self-Score: Excellent (3/3)**

---

## Category 6: Benchmark Rigor (2 pts)

**Requirement:** 2+ test cases, clear metrics, edge cases, and insightful failure analysis

Check	Evidence	Status
2+ test cases	6 test cases: SQL Performance, Data Cleanliness, AI Chatbot to Dev Tool, Agentic AI for Data Eng., WAL Protocol (edge), Vague Input (ambiguous)	<input checked="" type="checkbox"/>
Baseline comparison	Single-prompt GPT-4 run documented with actual output excerpts. Agentic: 4.5/5.0 vs. Baseline: 2.0/5.0	<input checked="" type="checkbox"/>
Clear metrics defined	5 metrics with 1-5 scale anchors: Actionability, Voice Consistency, Strategic Depth, Narrative Cohesion, LinkedIn Optimization	<input checked="" type="checkbox"/>
Edge case included	WAL Protocol — highly technical niche topic. Score: 3.4/5.0, Voice Consistency failed (2.5)	<input checked="" type="checkbox"/>
Ambiguous case included	Vague Input ("Improve your relationship with data") — Score: 3.6/5.0, Skill 1 interview rescued it	<input checked="" type="checkbox"/>
Success criteria defined before testing	Rubric frozen before running test cases (documented in Benchmark Appendix §1)	<input checked="" type="checkbox"/>

Prompts frozen across test cases	Benchmark Appendix §9: reproducibility notes, all settings documented	<input checked="" type="checkbox"/>
Aggregate results reported	Benchmark Appendix §7: aggregate results table per metric	<input checked="" type="checkbox"/>
Worst failure reported	Benchmark Appendix §8: WAL Protocol Week 5, Voice Consistency 2.0 — root cause and recommendation documented	<input checked="" type="checkbox"/>
Inputs and outputs shown	Baseline output excerpts and agentic excerpts shown side-by-side in Benchmark Appendix §3	<input checked="" type="checkbox"/>

**Self-Score: Excellent (2/2)**

### Bonus: MCP Tool (+1 pt)

**Requirement:** Working MCP tool that meaningfully extends system capabilities

Check	Evidence	Status
MCP tool included	@ldraney/mcp-linkedin installed and configured in <code>~/.claude/settings.json</code>	<input checked="" type="checkbox"/>
Meaningfully extends capabilities	Direct LinkedIn API posting — Skill 8 documents <code>linkedin_create_post</code> , scheduling, and image posting tools	<input checked="" type="checkbox"/>
Working (end-to-end)	Week 1 of AI Chatbot to Dev Tool series published live via LinkedIn API (direct Node.js call) — URN: <code>urn:li:share:7430329696413843458</code>	<input checked="" type="checkbox"/>
Documented	Skill 8 documents full OAuth flow, MCP setup, direct API fallback, error handling	<input checked="" type="checkbox"/>
Caveat	MCP server tools did not load into Claude Code session (known issue). Fallback to direct LinkedIn API call used. Post was published successfully.	

**Self-Score: Satisfactory → Excellent edge case. MCP published successfully via direct API; Claude Code MCP loading issue is a platform limitation, not a skill design issue.**

### Bonus: Demo Video (+1 pt)

**Requirement:** 2-5 min demo showing system end-to-end

Check	Evidence	Status
Demo recorded	Not recorded	
Input shown	—	—
Workflow/orchestration shown	—	—
Final output shown	—	—
Evaluation criterion mentioned	—	—

**Self-Score: 0/1 — Demo not submitted.**

**Recommendation:** Record a 3-minute walkthrough showing:

1. The GitHub repo structure (30 sec)
2. The test run archive file — show all 6 posts (60 sec)
3. The live LinkedIn post for Week 1 (30 sec)

4. The benchmark scorecard and explain one finding (60 sec)

## Point Summary

Category	Max	Self-Assessed	Evidence Quality
Problem Selection	1	<b>1</b>	Strong — LinkedIn posts explicitly in assignment examples
System Design	4	<b>4</b>	Strong — 9 distinct skills, clear roles, architecture diagram
Implementation Quality	3	<b>3</b>	Strong — 3 runs, documented iterations, honest critique
Real Usage + Iteration	2	<b>2</b>	Strong — SQL + Data Cleanliness + live AI Dev Tool run
Tutorial Writing Quality	3	<b>3</b>	Strong — replicable, figures, benchmarking, bottlenecks
Benchmark Rigor	2	<b>2</b>	Strong — 4 test cases, baseline, edge/ambiguous, failure analysis
<b>Subtotal</b>	<b>15</b>	<b>15</b>	
Bonus: MCP Tool	1	<b>0.5-1</b>	Partial — published live but MCP server had loading issues
Bonus: Demo Video	1	<b>0</b>	Not submitted
<b>TOTAL</b>	<b>17</b>	<b>15.5-16</b>	

## Gaps to Address Before Final Submission

Priority	Gap	Status
HIGH	Demo video not recorded	⚠ OPEN — Record 3-minute walkthrough (30-60 min effort) for +1 bonus point
MEDIUM	<del>Tutorial does not include exact prompts for all 9 skills inline</del>	✓ RESOLVED — Appendix A added to Tutorial with all 9 skill summaries
MEDIUM	<del>Section 5.3 (Run 3) missing from Tutorial</del>	✓ RESOLVED — Section 5.3 added with full input/output/analysis
LOW	Single rater bias in benchmark	Acknowledged in Tutorial §6.3 and Benchmark Appendix §9 — no action needed
LOW	Week 5 vision weakness	Acknowledged as known limitation in Tutorial §7 — no action needed

## Path A Skill Format Compliance

Each skill must include: name, purpose, inputs/outputs, step-by-step behavior, constraints/failure modes, example usage.

Skill	Name & Purpose	Inputs/Outputs	Step-by-Step	Constraints	Failure Modes	Example
skill_0	✓	✓	✓	✓	✓	✓
skill_1	✓	✓	✓	✓	✓	✓
skill_2	✓	✓	✓	✓	✓	✓
skill_3	✓	✓	✓	✓	✓	✓

skill_4	✓	✓	✓	✓	✓	✓
skill_5	✓	✓	✓	✓	✓	✓
skill_6	✓	✓	✓	✓	✓	✓
skill_7	✓	✓	✓	✓	✓	✓
skill_8	✓	✓	✓	✓	✓	✓

All 9 skills are fully compliant with Path A format requirements.

---

## Canvas Submission Checklist

Item	File	Status
System artifact link	<a href="https://github.com/taashim-eng/linkedin-thought-leadership-agent">https://github.com/taashim-eng/linkedin-thought-leadership-agent</a>	✓ Ready
Tutorial Write-up PDF	TUTORIAL_WRITEUP.pdf	✓ Ready
Benchmark Appendix	benchmark/BENCHMARK_APPENDIX.md (or as PDF)	✓ Ready
Demo Recording URL	Not available	✗ Optional

*Self-assessment completed: February 2026. This checklist is for personal reference only — not a required submission.*