Professional Development Plan (PDP)

Development Goal	Current Status	Action Steps	Resources/Support	Timeline	Expected Outcome
Strengthen hybrid agent architecture	Good theoretical knowledge	Work on applied use cases	Python tutorials, frameworks	3–6 months	Ability to design & implement scalable systems
Improve Python for communication	Intermediate skills	Develop projects using KQML	PyCharm, GitHub	3 months	Efficient protocol implementation
Deepen NLP & dialogue systems	Basic experience	Take NLP course, experiment	Coursera, open-source libraries	2 months	Intelligent interfaces with NLP
Enhance leadership skills	Collaborative contributor	Lead design meetings	Team projects	Ongoing	Confidence in leading technical teams
Advance in XAI & multi-agent systems	Introductory knowledge	Attend webinars, research	IEEE, Arxiv	1 year	Ability to build transparent multi-agent systems

Skills Matrix

Skill Area	Before Module	After Module	Evidence
Agent architectures	Basic awareness	Confident in comparing models	Forum posts; Unit reflections
First-order logic	Minimal exposure	Can formalise agent reasoning	Unit 2–4 exercises
Communication protocols	No prior knowledge	Can design message flows	DFAS project contributions
Team collaboration	Good experience	Improved coordination	Team contract; peer reviews
NLP and parsing	Basic awareness	Can apply basic NLP	Unit 7–8 exercises
Critical reflection	Developing skill	Structured reflection	This report & PDP
Ethical awareness in AI	Limited	Increased understanding	Discussions; literature
Professional communication	Moderate	Improved clarity	Presentation; documentation