

Collective Teaching and Learning (CTL)

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Collective Teaching and Learning (CTL) is a pedagogical framework designed to leverage the collective intelligence of a broad educational community, incorporating AI-assisted discussion boards to enhance interaction and learning outcomes. CTL operates on the premise that learning is a communal activity, where questions posed by students are open to contributions from an AI system, professors from multiple universities (e.g., Cambridge, Harvard, Oxford, ARU, LSE, etc), and students at different levels of study (e.g., undergraduate, postgraduate). This approach encourages a multi-perspective dialogue on academic inquiries, with responses being enriched by AI capabilities and human insights from across the academic spectrum.

The process allows for:

- **Initial AI Assistance:** Offering immediate, AI-generated responses to student queries, thus providing a quick foundation for further discussion.
- **Academic Collaboration:** Facilitating contributions from professors and students from different institutions, each adding unique insights or further developing the question.
- **Dynamic Solution Selection:** Enabling the original question asker or a designated member of the atomic team to select the most effective solution based on upvotes or quality, with the flexibility to update this selection as new, superior answers emerge.
- **Knowledge Collectivism:** By aggregating similar questions and answers, the platform aids in creating a comprehensive knowledge base, promoting efficiency and reducing redundancy in educational efforts.

CTL represents a forward-thinking model for academic discourse, aiming to transcend traditional educational barriers by fostering an interconnected, supportive learning environment. This model not only enhances educational engagement but also pioneers the integration of AI in academia, promising a future where knowledge is more freely shared and accessible across socio-economic divides, despite the challenges inherent in achieving such a vision.

CTL is one element of the Modern Method of Education, first conceptualised by Atomic Academia LTD in 2024.^[1]

References

1. ^ Joshua Ferdinand. (2024). *Modern Method of Education (MMOE)*. doi:10.32388/ft5v8r.

