Research

For technical details, please check our technical report and research publications.

- [AutoGen: Enabling Next-Gen LLM Applications via Multi-Agent Conversation Framework](#). Qingyun Wu, Gagan Bansal, Jieyu Zhang, Yiran Wu, Shaokun Zhang, Erkang Zhu, Beibin Li, Li Jiang, Xiaoyun Zhang and Chi Wang. ArXiv 2023.

```
@inproceedings{wu2023autogen,
    title={AutoGen: Enabling Next-Gen LLM Applications via Multi-Agent Conversation Framework},
    author={Qingyun Wu and Gagan Bansal and Jieyu Zhang and Yiran Wu and Shaokun Zhang and Erkang Zhu and Beibin
    year={2023},
    eprint={2308.08155},
    archivePrefix={arXiv},
    primaryClass={cs.AI}
}
```

- [Cost-Effective Hyperparameter Optimization for Large Language Model Generation Inference](#). Chi Wang, Susan Xueqing Liu, Ahmed H. Awadallah. AutoML'23.

```
@inproceedings{wang2023EcoOptiGen,
    title={Cost-Effective Hyperparameter Optimization for Large Language Model Generation Inference},
    author={Chi Wang and Susan Xueqing Liu and Ahmed H. Awadallah},
    year={2023},
    booktitle={AutoML'23},
}
```

- [An Empirical Study on Challenging Math Problem Solving with GPT-4](#). Yiran Wu, Feiran Jia, Shaokun Zhang, Hangyu Li, Erkang Zhu, Yue Wang, Yin Tat Lee, Richard Peng, Qingyun Wu, Chi Wang. ArXiv preprint arXiv:2306.01337 (2023).

```
@inproceedings{wu2023empirical,
    title={An Empirical Study on Challenging Math Problem Solving with GPT-4},
    author={Yiran Wu and Feiran Jia and Shaokun Zhang and Hangyu Li and Erkang Zhu and Yue Wang and Yin Tat Lee and
    year={2023},
    booktitle={ArXiv preprint arXiv:2306.01337},
}
```

- [EcoAssistant: Using LLM Assistant More Affordably and Accurately](#). Jieyu Zhang, Ranjay Krishna, Ahmed H. Awadallah, Chi Wang. ArXiv preprint arXiv:2310.03046 (2023).

```
@inproceedings{zhang2023ecoassistant,
    title={EcoAssistant: Using LLM Assistant More Affordably and Accurately},
    author={Zhang, Jieyu and Krishna, Ranjay and Awadallah, Ahmed H and Wang, Chi},
    year={2023},
    booktitle={ArXiv preprint arXiv:2310.03046},
}
```

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