

Project Proposal Idea: Propose Improvement for Offline RL

- Motivation: Industrial Applications
 - Big Companies especially automotive OEMs can acquire huge amounts of real trajectories
 - Offline RL might therefore become a milestone for autonomous driving
- SOTA Offline RL significantly underperforms Online RL [\[Mediratta et al. 2024\]](#)
- Approach:
 - Research current SOTA in Offline RL
 - Invent some minor adaption that seems promising
 - Test

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- Backup
- In case I can't find any optimization:
 - Extend research to Meta Offline-RL
- Future research:
 - Offline Meta-RL Method that extracts a policy which outperforms behavior policies of the offline data