



Distributed computing for deep reinforcement learning system

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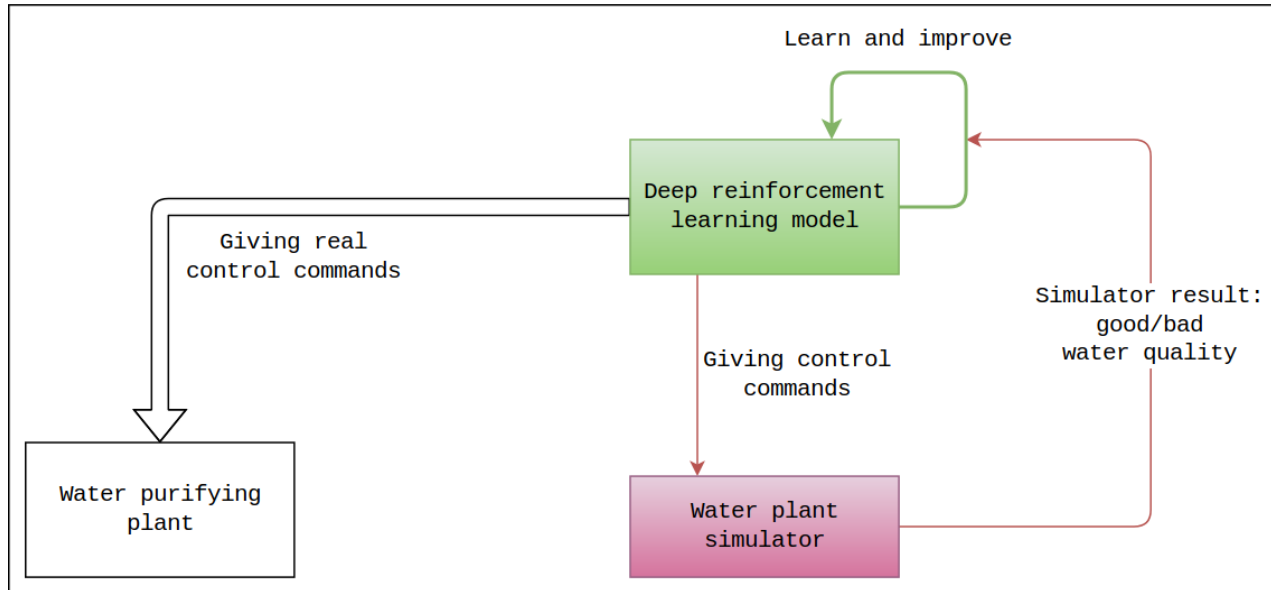


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- What the customer had
- What we offered
- Achievements

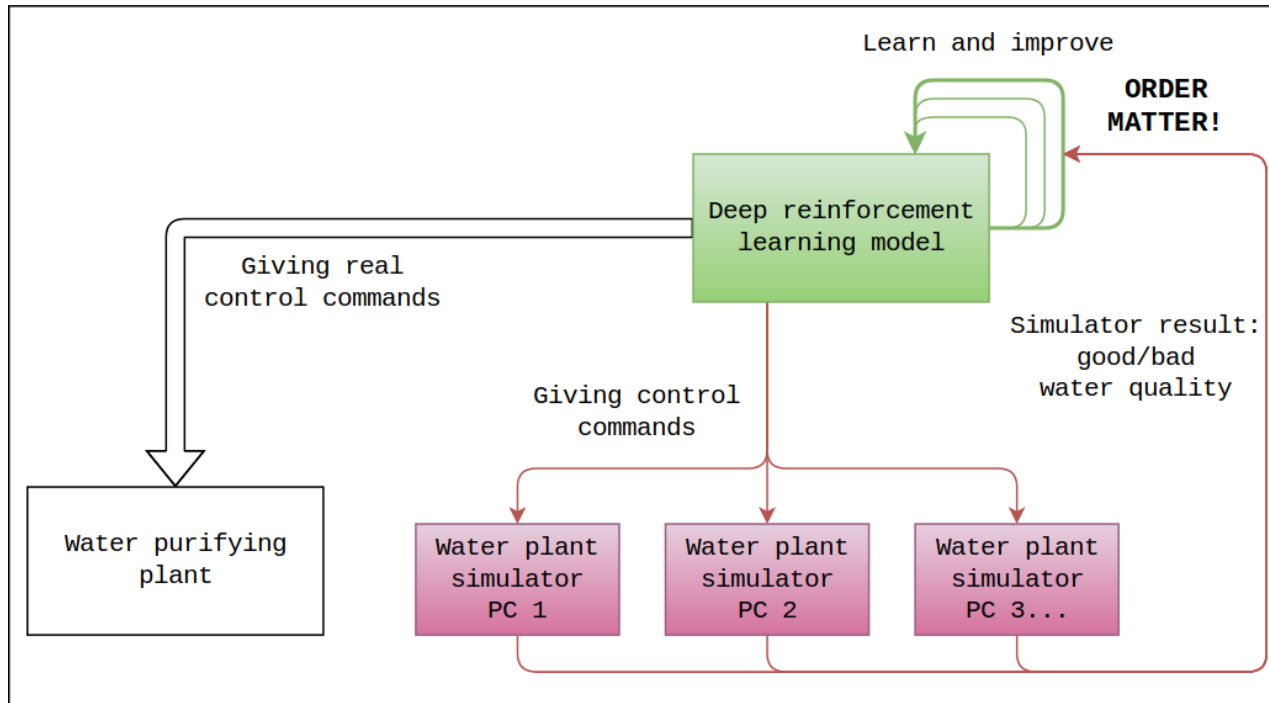
Customer's problem: Model to be trained

- Deep reinforcement model for controlling water purifying process
 - Model needed to learn itself by trying multiple scenarios
- ➔ Have to try a lot of scenarios



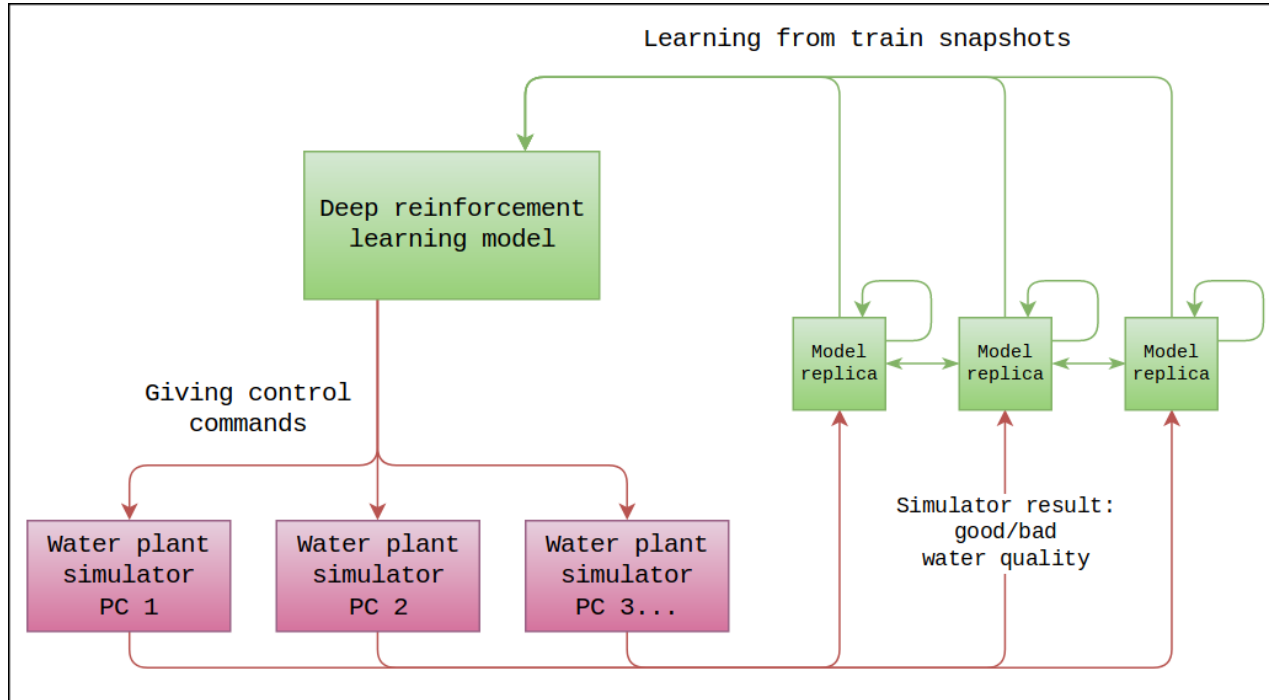
What we offered: distributed simulator & training

- Model generates many command sets and evaluates separately, simultaneously



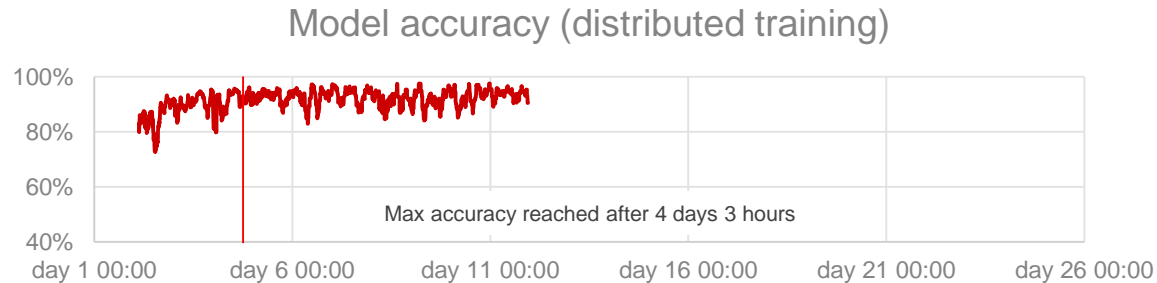
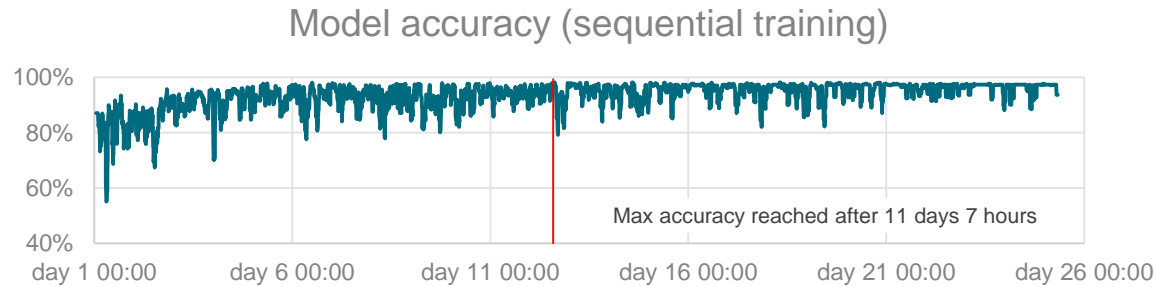
What we offered: distributed simulator & training

- Training snapshots to be centralized and improve main model

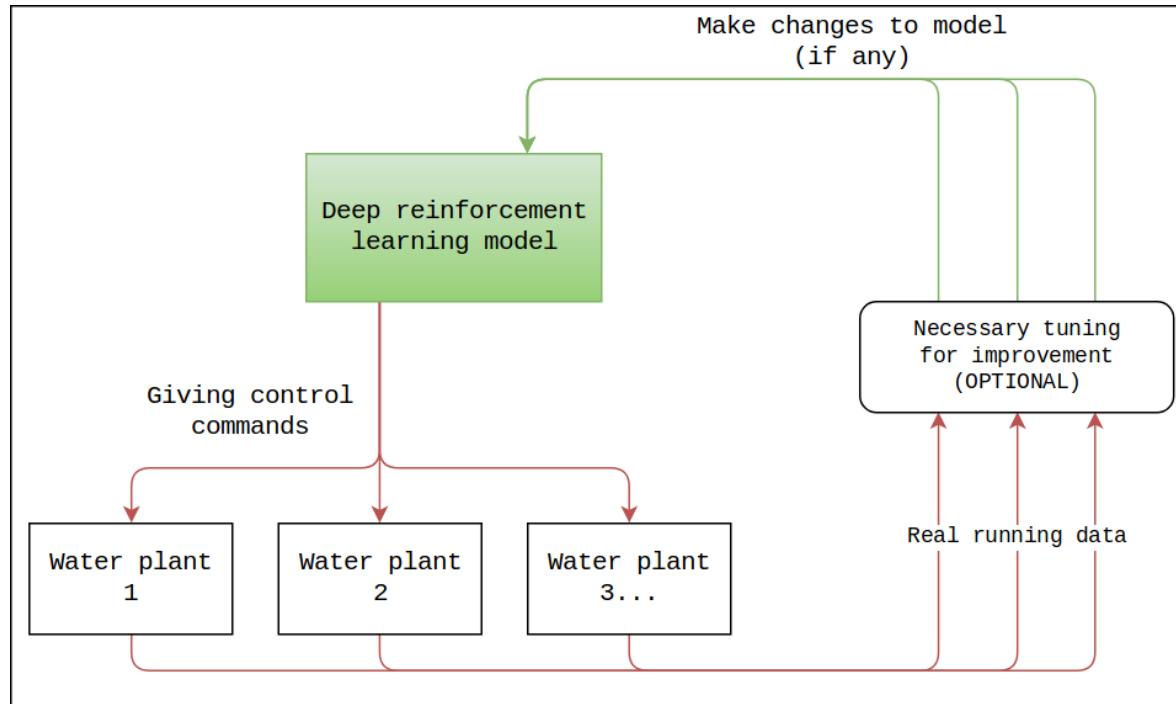


What we offered: distributed simulator & training

- Faster training of the model: faster model for production



- In real system optional human override helps tuning the model to give even better command sets



Conclusion

A cityscape at dusk or dawn, with buildings illuminated by warm lights. A large, semi-transparent white rectangle is overlaid on the right side of the image, partially obscuring the buildings.

Thank You

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