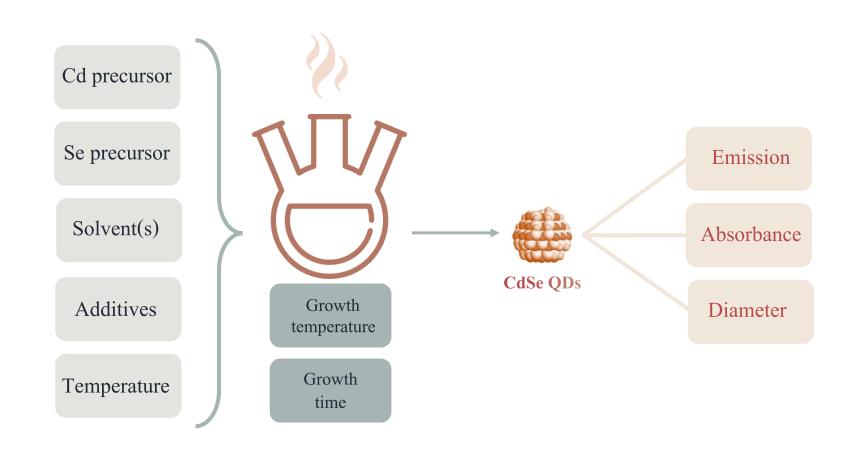
Het Pots for Good Dats

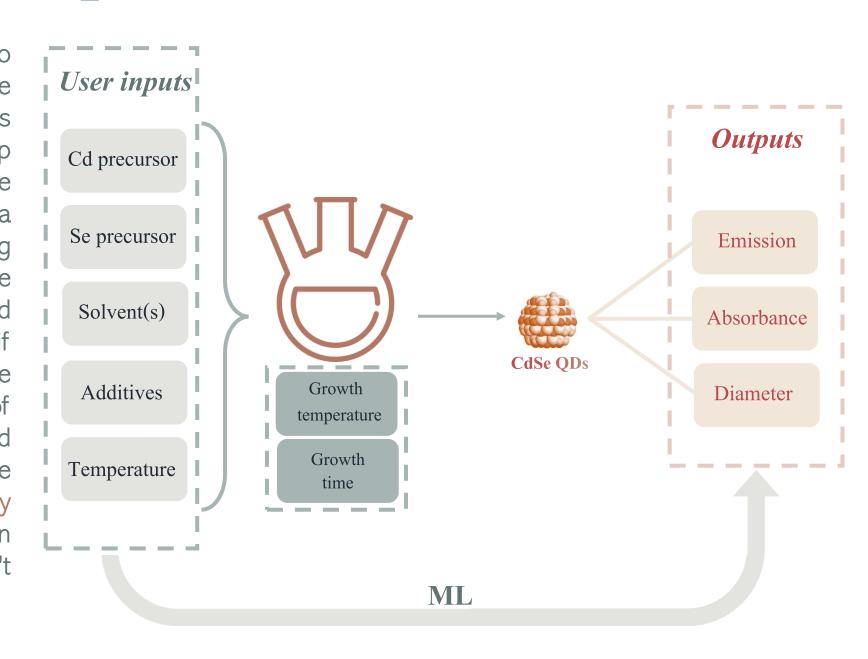
Typical synthesis of CdSe quantum dots (QDs)



LUse case 1

Story:

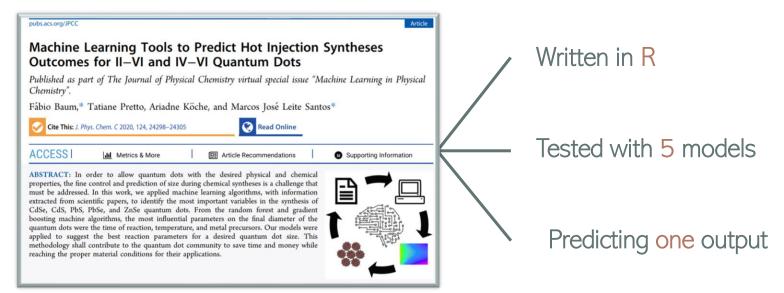
Clay is a chemistry grad student who experience with some the synthesis of nanoparticles. He already asked his undergrad to help him synthesize one batch of CdSe quantum dots. Clay needs to run a dozen more experiments modifying the conditions of the synthesis. He wants to adjust the temperature and the solvents of the reaction to see if the size, absorbance and emission are different. This specific set experiments has never been reported before. But Clay can only come to the lab twice a week due to COVID. Clay knows that in group meeting on Friday, his PI will be mad if he doesn't have the data. Clay is frustrated.



Story:

Zach is a demanding chemistry professor. He's read the paper "Machine Learning Tools to Predict Hot Injection Syntheses Outcomes for II-VI and IV-VI Quantum Dots" and had some thoughts. Because this is the only paper about using machine learning for II-VI and IV-VI quantum dots syntheses in the literature, Zach wonder if there is a better model that can predict not only the diameter of the quantum dots, but also their max photoluminescence and max absorbance. Zach is curious.

LUse case 2



Vs.

