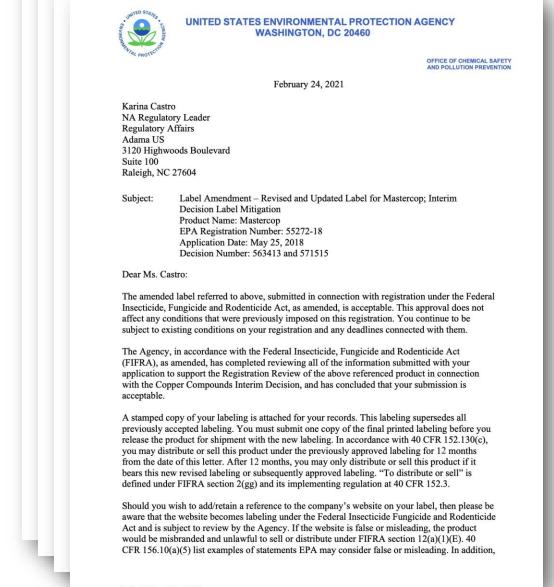


DEPARTMENT OF COMPUTER SCIENCE

Problem Definition D STATES ENVIRONMENTAL PROTECTION AGENC ASHINGTON, DC 2046





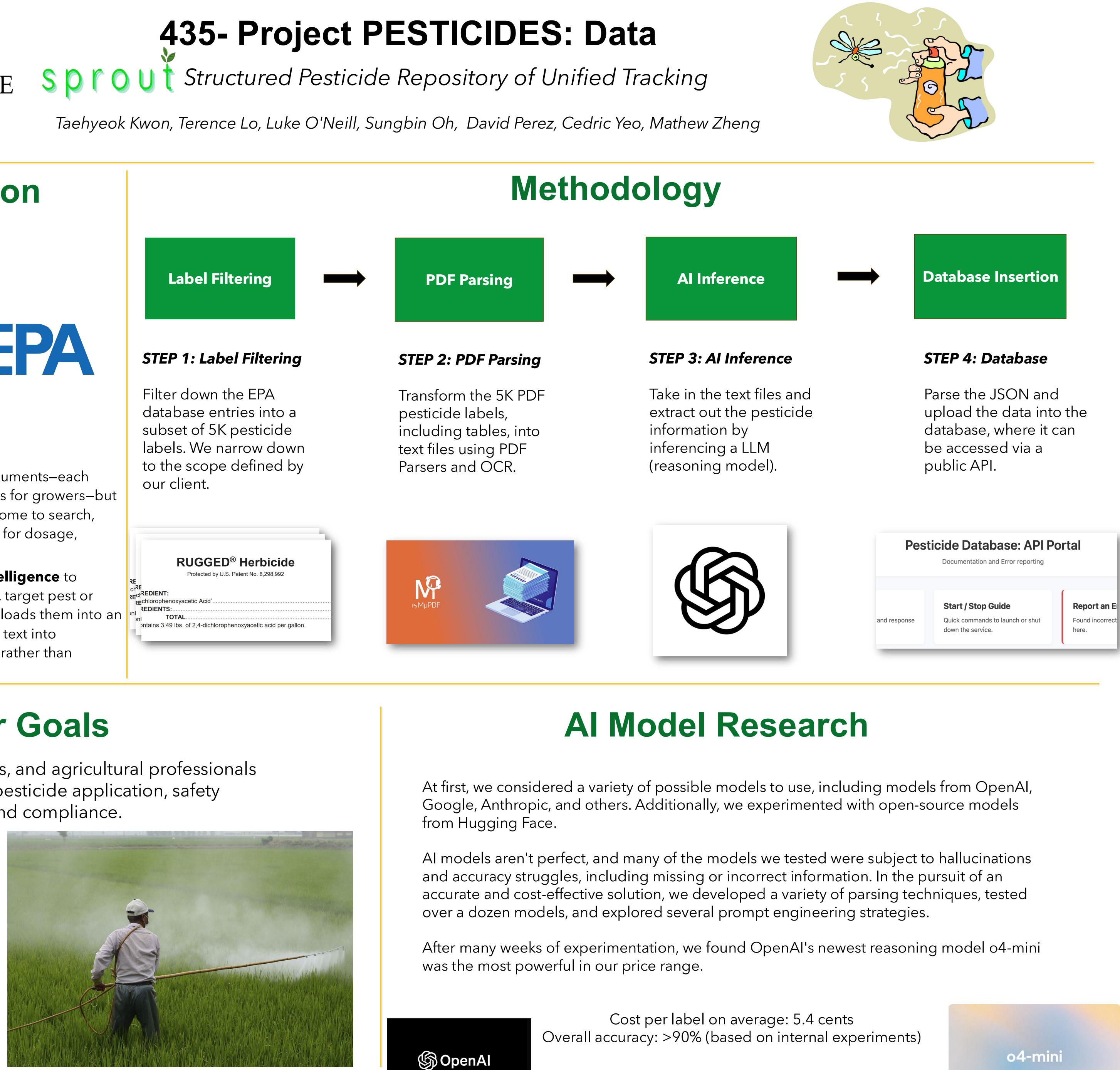
The U.S. EPA contains over **360K** pesticide-label documents-each packed with critical application and safety instructions for growers-but they exist only as inconsistent PDFs that are cumbersome to search, forcing farmers to comb through lengthy documents for dosage, timing, or safety guidance.

Our solution harnesses **state-of-the-art artificial intelligence** to automatically parse and extract important data-crop, target pest or disease, application rate, safety information ... –and loads them into an **open-source database**. This Al-driven pipeline turns text into actionable insights, so growers can focus on farming rather than paperwork.

Our Goals

Empower farmers, researchers, and agricultural professionals with reliable insights on pesticide application, safety guidelines, and compliance.





90% Accuracy on automated extraction pipeline