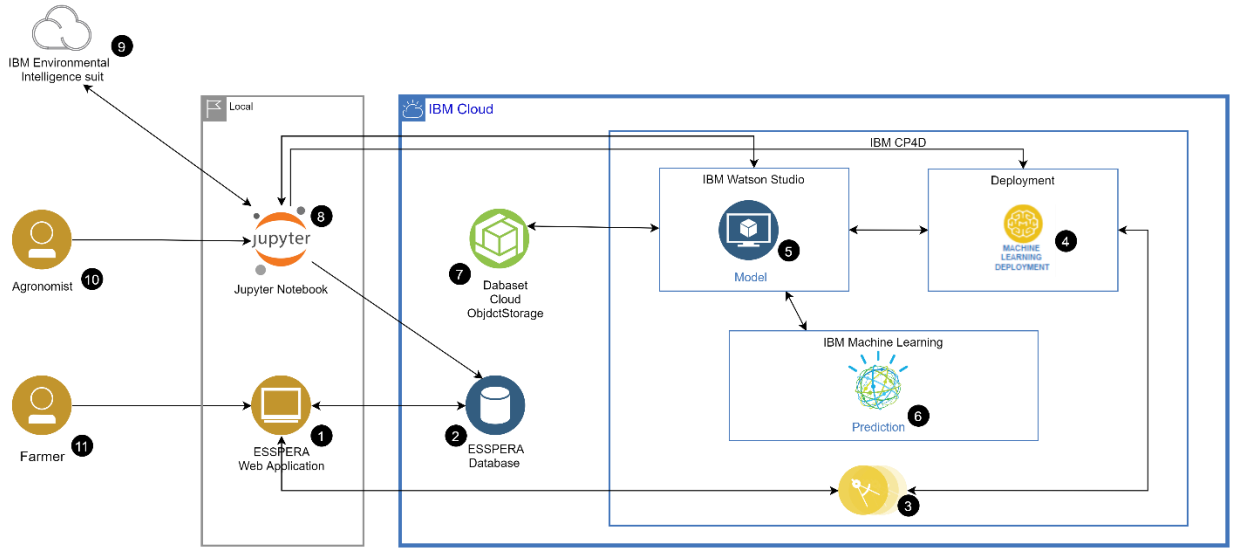
# ESSPERA Solution Architecture

## Test/Dev Architecture (Existing)




1. Web Application: Farmer can give data and access the dashboard to get the seed recommendation
2. ESSPERA database: calling right prediction model for specific crop
3. Exposed API: exposing deployed prediction model as API
4. Deployment: Deploy the train model
5. IBM Watson Studio: Run the model from Jupyter notebook
6. IBM Machine learning: get the prediction of seed yield
7. Cloud object storage: Store Model and CSVs
8. Jupyter Notebook: Add, Clean and process soil, Seed and weather CSVs
9. IBM Environmental Intelligence suit: Get the weather data

# Production Architecture (Proposed)