Challenges

- No funding for small businesses
- No skillset and knowledge on starting a businesss
- Lack of business connections and E-commerce knowledge.

Solution

- Create a network that connects small farmers with food supermarkets (future implementation).
- Detects crop diseases that may damage crops

Approach

- Early detection of crop disease will cut down future expenses. Resulting in a bigger profit and more funds to finance the business. Improve technical skillset in small businesses.
- Exposing small farmers to E-commerce and bringing customers to them will improve their business connections and cut down on marketing costs.

Interaction of a user with the interface

- The demo potrays the interaction of user with the UI.
- Picture of a crop will be the input of the app, then the app will compare the input with the stored data of the trained neural networks.
- The app will then determine whether the the picture of a crop is healthy or not
- If crops are healthy they can be made available to buyers.
- If crops are not healthy the type of disease will be displayed and causation with the treatment of the disease.
- The app will notify farmers to make crop disease treatment available to to other farmers.
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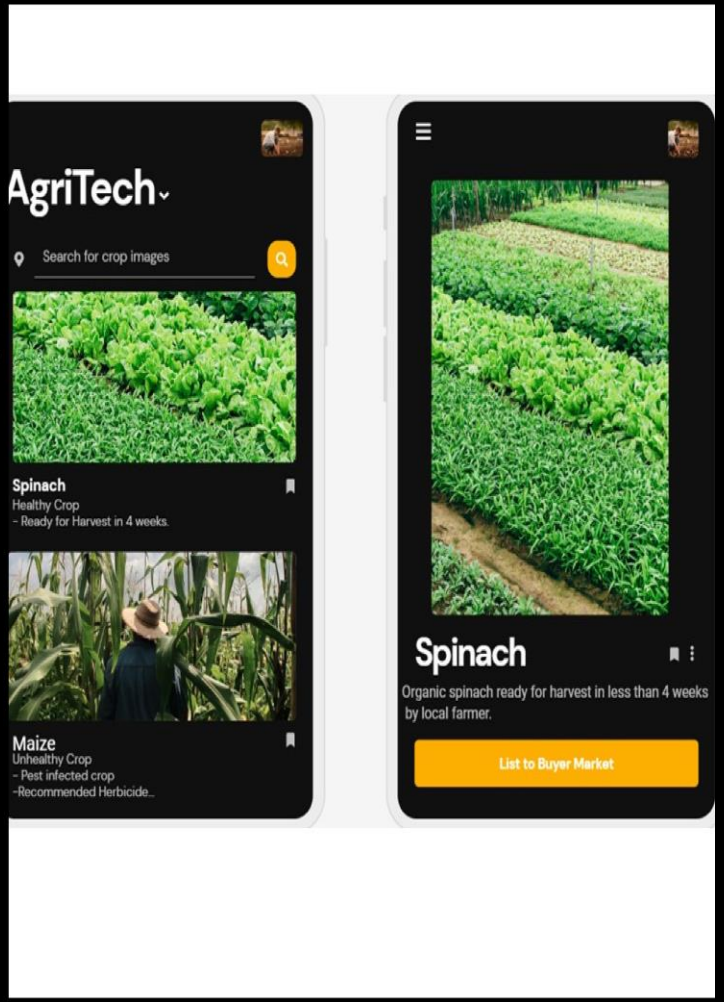
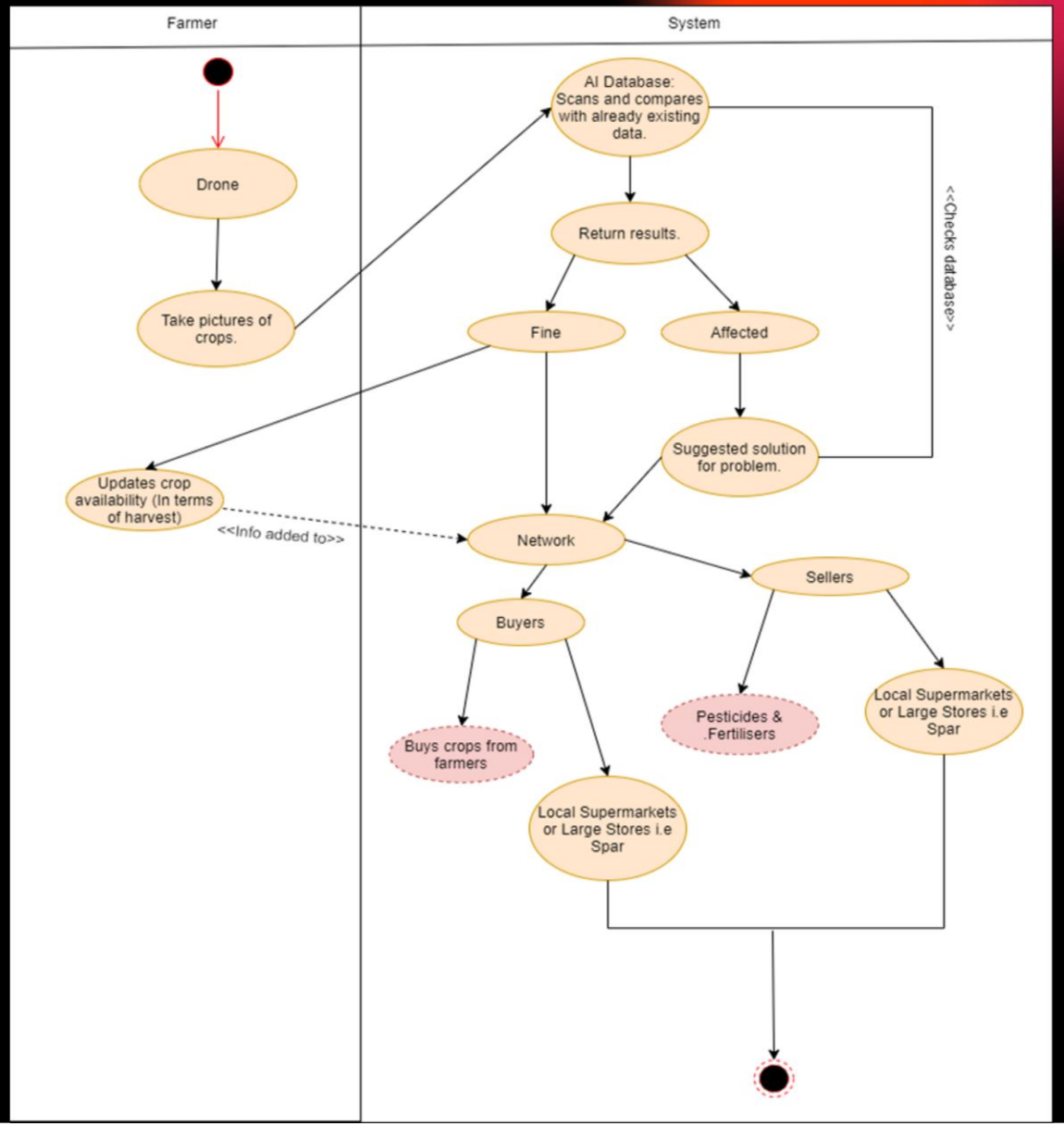
- Due to time our data of the trained neural network is a small sample.



flow of activities in our application

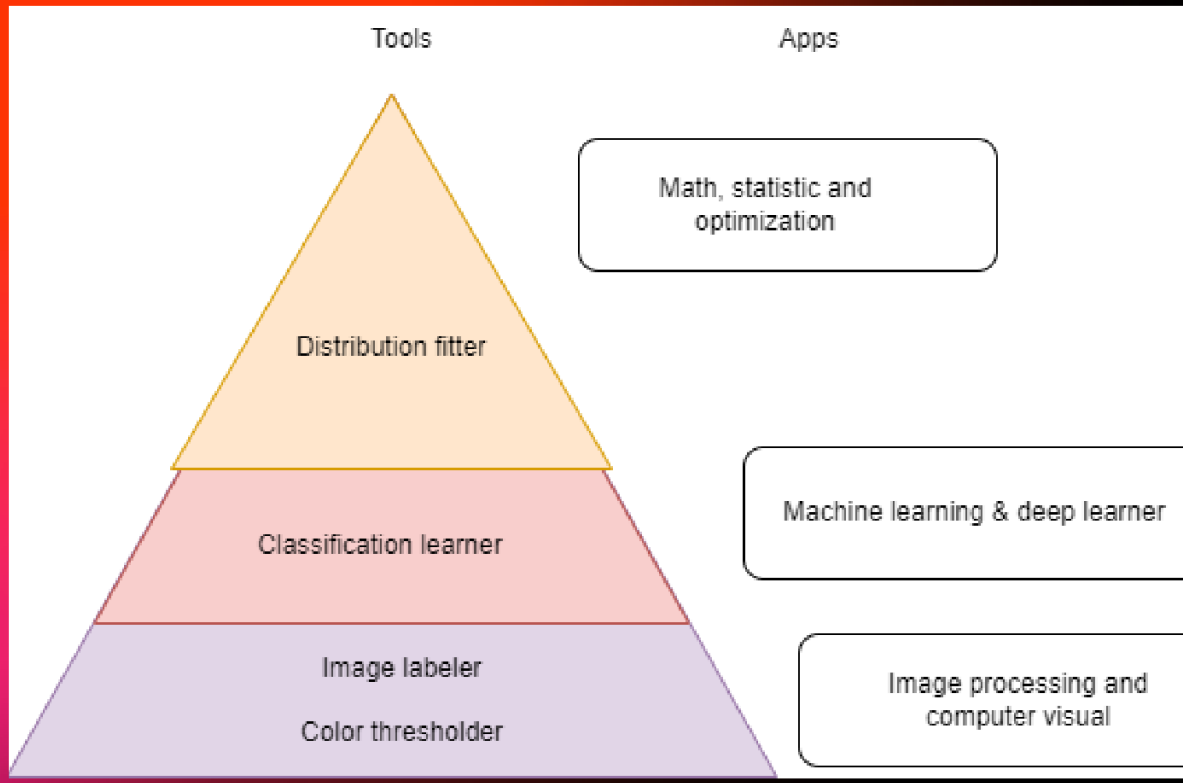


Differentiation strategy

- **Pixofarm** - accurately yield estimation for your fruit tree and negotiate better prices.
- **Agrigists** - monitor your farming operations in a single platform.
- **GreenAgri** - similar to agrigists , replace the pen and paper system of monitoring and financing farmers.

- our solution detects potential threats to the crop growth and connect farmers with big food supermarkets.
- show the farmers the factors they should look into in terms of preventing crop diseases.

Stack



References: https://www.kaggle.com/datasets/aman2000jaiswal/agriculture-crop-images

Competitors

pixofarm.

agrigistics

GreenAgri