**DL REVIEW 1**

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**POTATO DISEASE CLASSIFICATION**

**ABSTRACT:**

* Farmers every year face economic loss and crop waste due to various diseases in potato plants.
* We will use image classification using CNN and built a mobile app using which a farmer can take a picture and app will tell you if the plant has a disease or not. Technology stack for this project will be,
* **Model Building:** tensorflow, CNN, data augmentation, tf dataset
* **Backend Server and ML Ops:** tf serving, FastAPI
* **Model Optimization:** Quantization, Tensorflow lite
* **Frontend:** React JS, React Native
* **Deployment:** GCP (Google cloud platform, GCF (Google cloud functions)

**Steps:**

* Data collection
* Model building
* ML Ops
* Deployment(GCP)

**Dataset:**

* <https://www.kaggle.com/datasets/arjuntejaswi/plant-village>
* Firstly, we should load data into tf.Dataset
* Then we should do data visualization
* We should do Train test split
* We must do data augmentation