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Machine Learning Section

License Plate Recognition System   *Coriolis Project*

OPENCV, PYTHON

- This project is used to autodetect License Plate in car and fetch license number
- I have used OpenAlpr library along with handcrafting features for License Plate

Cancer Survival Prediction   *CDAC Project*

R

- This was group project my role was to develop to predictive model for survival of a patient.
- Dataset was obtained from seer.cancer.org and it contained number cancer types with each patient data.
- Survival of patient is hypothesis was if cancer is detected in early stage and at early age then chances of patient survival are more.

Real Time Face Recognition   *Open Source Contribution*

PYTHON, TENSORFLOW, FACENET, KERAS

- This project was to detect and recognise faces in real time(in video)
- Apart from Traditional methos to detect faces, I have used embedding between to faces as measure to diffrentiate two faces.
- Pretrained model from Facenet is retrained for my dataset.
- In detection face, I use to take video frame at x miliseconds.
- For each frame then create embedding and compare with pretrained model.

Festival Recognition App   *Open Source Contribution*

JAVA, TENSORFLOW, ANDROID

- This is an android app, which detects type of Indian Festival after taking image from Camera or gallery.
- For this app I have collected thousands of images for Holi, Diwali, Eid, Birthday, Marriage
- Then I used Inception V4 model from ImageNet and retrained it on above dataset.
- This retrained model is optimised for Android by rounding graph and making it compitable for android platform

Hand written digits classification App   *Open Source Contribution*

JAVA, TENSORFLOW, ANDROID, KERAS

- This is an android app, detect which nuber is drawn from 0 to 9 by user.
- For this app I have used MNIST dataset
- Then trained two diffenet model with Tensorflow and Keras
- User can draw any digit and two seprate prediction from two models are given.

Core Development Section

REST API for Android App   *Client Project*

RUBY, RAILS, MONGO, REST API

- It was dating app, just like tinder
- My responsibility was to take feature request from Prodcut Manager and provide it as rest api to front end team.

Orchestration Using Chef, Puppet, Ansible   *Client Project*

RAILS, MONGO, CHEF, PUPPET, ANSIBLE, REST API

- I am working as team lead and developer for this project
- Use case is client have certain products that need to be managed using REST API and on massive level.
- Using any of Chef, Puppet or Ansible we can perform job like install agent, register agent, upgrade agent etc.

REST API client in GO Lang   *Client Project*

GO, REST CLIENT

- This was tool developed by me, which was replacement of curl which is platform devpendent.
- GO was used because it give one single binary, no need for any dependency.

Automate Instance Creation AWS   *Client Project*

BASH, AWS CLI, AWS

- From VMware Vsphere virtual machine to AMI on aws is automated for Client Product

Write Simple Android Apps in Kotlin   *Open Source Contribution*

KOTLIN, ANDROID

- Create Diffrent Android Apps with Kotlin

Pulication Section

Real time Face Recognition Article   *Open Source Contribution*

<small>CLICK TO READ</small>

Indian Festival Recognition App   *Open Source Contribution*

<small>CLICK TO READ</small>

MNIST Demo on Android   *Open Source Contribution*

<small>CLICK TO READ</small>

REST Client in GO   *Open Source Contribution*

<small>CLICK TO READ</small>