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Machine Learning Section

License Plate Recognition System

Coriolis Project

OPENCV, PYTHON

- This project is used to autotdetect 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 milliseconds.
- 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 Developement 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

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Indian Festival Recognition App

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MNIST Demo on Android

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REST Client in GO

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