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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 & predict model for survival of patients.
- Dataset was obtained from seer.cancer.org and it has various cancer types with patients data.
- Hypothesis was if cancer is detected in early stage and at early age then chances of patients 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 methods to detect faces, I have used embedding two faces as measure to differentiate them.
- Pretrained model from Facenet is retrained for my dataset.
- In detection face, I have taken video frame at x miliseconds.
- Then create embedding and compare with model for each frame.

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, which detects number drawn by user between 0 to 9.
- For this app I have used MNIST dataset
- Then trained two diffenet model with Tensorflow and Keras
- User can draw any digit and prediction from two models are given.

Core Development Section

Orchestration Using Chef, Puppet, Ansible
Client Project

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

- I am working as Team Lead and Lead Developer for this project.
- Use case is - client have certain products that need to be managed using configuration manager.
- Using any either Chef, Puppet or Ansible, we can perform job like install agent, register agent, upgrade agent etc.

Soap client in C
Client Project

C, SOAP
Current Project

- I am owner of this product.
- I maintained & add new features.

Rails Backend Development
Client Project

RUBY, RAILS, MONGO, REST API

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

REST API client in GO Lang
Client Project

GO, REST CLIENT

- I developed this app, which is replacement of curl

Automate Instance Creation AWS
Client Project

BASH, AWS CLI, AWS

- Tool for migration of VMware vSpher OVA to AWS AMI

Migrate Existing OVA to Azure   *Client Project*

BASH, AZURE CLI, AZURE

- Migration of VMware vSpher OVA to Azure

Android Apps in Kotlin   *Open Source Contribution*

KOTLIN, ANDROID

- Android Apps using Kotlin language

Publication Section

Real time Face Recognition Article   *Open Source Contribution*

CLICK HERE

Indian Festival Recognition App   *Open Source Contribution*

CLICK HERE

MNIST Demo on Android   *Open Source Contribution*

CLICK HERE

REST Client in GO   *Open Source Contribution*

CLICK HERE