

Ishwar Sawale

FULL-STACK DEVELOPER · MACHINE LEARNING RESEARCHER

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Summary

Current Software Engineer at Coriolis Technologies 1.10+ years experience in software development. Full-stack developer with machine learning & computer vision skills. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Education

Diploma in Big Data Analytics

Pune, India

CDAC-ACTS PUNE

Aug 2015 - Feb. 2016

- Achieved grade A with 70.00%

BE in E&TC

Pune, India

UNIVERSITY OF PUNE

Aug. 2011 - May. 2014

- Achieved Distinction with 69.33%

Diploma in E&C

Mumbai, India

MSBTE, MUMBAI

May. 2008 - Aug. 2011

- Achieved Distinction with 85.38%

Work Experience & Responsibility

Coriolis Technologies Pvt Ltd

Pune, India

MEMBER OF TECHNICAL STAFF

Mar. 2016 - PRESENT

- Developer & Scrum Master for Cloud Team
- Rails Backend Development for Orchestration tool
- Creating recipes for Ansible, Chef and Puppet configuration managers

Skills & Courses

Tools	Git, LaTeX
Stacks	MongoDB, MySQL
Languages	C, Python, Java, Go, R
Frameworks	Ruby On Rails
Web Technologies	HTML
Machine Learning	Tensorflow, Keras, Pytorch, OpenAI

Courses

- Neural Networks and Deep Learning by deeplearning.ai on Coursera
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization by deeplearning.ai on Coursera
- Structuring Machine Learning Projects by deeplearning.ai on Coursera
- Artificial Intelligence A-Z Learn How To Build An AI on Udemy
- Deep Learning A-Z Hands-On Artificial Neural Networks on Udemy
- Practical Deep Learning with PyTorch on Udemy
- Machine Learning A-Z Hands-On Python & R In Data Science on Udemy
- The Complete Android Kotlin Developer Course on Udemy
- Complete iOS 11 Machine Learning Masterclass

Machine Learning Section

License Plate Recognition System

Coriolis Project

OPENCV, PYTHON

- This project was used to auto-detect License Plate in car and fetch license number
- I have used OpenAlpr library along with handcrafting features for License Plate detection
- Custom OCR was trained and used to predict each individual number from 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 milliseconds.
- 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 compatible for android platform

Hand written digits classification

Open Source Contribution

App

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

REST API client in GO Lang

[Client Project](#)

Go, REST CLIENT

- I developed this app, which is replacement of curl

Android Apps in Kotlin

[Open Source Contribution](#)

KOTLIN, ANDROID

- Android Apps using Kotlin language

Automate Instance Creation AWS

[Client Project](#)

BASH, AWS CLI, AWS

- Tool for migration of VMware vSphere OVA to AWS AMI

Migrate Existing OVA to Azure

[Client Project](#)

BASH, AZURE CLI, AZURE

- Migration of VMware vSphere OVA to Azure

Rails Backend Development

[Client Project](#)

RUBY, RAILS, MONGO, REST API

- It was dating app, just like tinder
- REST API implementation for various feature request

Publication Section

Real time Face Recognition Article

[Open Source Contribution](#)

LINKDIN ARTICLE

Sep 2017

- Article about Face Recognition in Video

REST Client in GO

[Open Source Contribution](#)

LINKDIN ARTICLE

Sep 2017

- Article about writing curl like tool in GO lang

Indian Festival Recognition App

[Open Source Contribution](#)

LINKDIN ARTICLE

Aug 2017

- Article about how to retrain Inception V4 model & use it in Android app

MNIST Demo on Android

[Open Source Contribution](#)

LINKDIN ARTICLE

Aug 2017

- Article about using TensorFlow in Android app