

# 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

<b>Tools</b>	Git, LaTeX
<b>Stacks</b>	MongoDB, MySQL
<b>Languages</b>	C, Python, Java, Go, R
<b>Frameworks</b>	Ruby On Rails
<b>Web Technologies</b>	HTML
<b>Machine Learning</b>	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

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### 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