shwar Sawale

🛘 (+91) 82-3744-2227 | 🔼 ishwarsawale@gmail.com | 🌴 ishwarsawale.com | 🖸 ishwarsawale | 🗖 ishwarsawale | 💆 @ishwarsawale

Pune, India

Pune. India

Mumbai, India

Pune, India

Mar. 2016 - Feb. 2018

Aug 2015 - Feb. 2016

Aug. 2011 - May. 2014

Summary _____

I have 2.6+ years experience in Data Science. Currently, I am working with Mindstix Software Labs as Data Scientist. At Mindstix I am working on Recommendation, ChatBot & Face Recognition Systems.

Prior to Mindstix, I was working with Coriolis Technologies Pvt Ltd for 2 years as Machine Learning Engineer.

Education

Diploma in Big Data Analyatics

CDAC-ACTS PUNE

Achived grade A with 70.00%

BE inElectronics &

Telecommunication

UNIVERSITY OF PUNE

· Achived Distinction with 69.33%

- · 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 Course on Udemy
- Deep Learning and NLP A-Z™: How to create a ChatBot on Udemy
- · Complete Guide to TensorFlow for Deep Learning with Python on Udemy
- CWorkshop in Probability and Statistics on Udemy
- Building Practical Recommendation Engines on Udemy
- ChatBots: Messenger ChatBot DialogFlow and node is on Udemy
- Introduction to Recommender Systems: Non-Personalized and Content-Based on Coursera
- Nearest Neighbor Collaborative Filtering on Coursera
- Recommender Systems: Evaluation and Metrics on Coursera
- Matrix Factorization and Advanced Techniques on Coursera

Diploma in Electronics &

Communication

MSBTE, MUMBAI May. 2008 - Aug. 2011

· Achived Distinction with 85.38%

Machine Learning Section

Neural Style Transfer App

Open Source Contribution

CNN, Python, Kivy

- This app is a TensorFlow implementation of the paper A Neural Algorithm of Artistic Style by Leon A. Gatys, Alexander S. Ecker, and Matthias Bethge.
- The paper presents an algorithm for combining the content of one image with the style of another image using convolutional neural network.

Mindstix Software Labs Pune, India

DATA SCIENTIST Feb. 2018 - PRESENT

Work Experience & Responsibility _____

- · Recommendation Systems for Retail Business
- ChatBot Framework
- Face Recognition Systems
- · Algorithm Design

Prodcutivity ChatBot

Open Source Contribution

NLU, FLASK, SLACK

- · Based on given input this bot extracts intent & slots using NLU
- · When each intent is detected related web service is executed

Chatbot Framework

Mindstix Software Labs Project

NLP, LSTM, RASA, PYTHON, FLASK

- This is Deep Learning based Chatbot used by customer in production
- End to End integation of bot with with REST API's

Face Recognition Library

Open Source Contribution

FACENET, PYTHON

- Face Recognition working with one API call
- · Based on Facenet, available as pip package

User-User Collaborative Filtering

Mindstix Software Labs Project

NEO4J, PYTHON

- Personalized recommender algorithm which learn from past agreements to predict future agreements
- It uses the concept of similarity in order to identify users
- Instead of traditional approach of matrix factorization, Graph database is used

User-Item Content Based Filtering

Mindstix Software Labs Project

TENSORFLOW, PYTHON

- Singular Value Decomposition (SVD) is used to estimate the size of the basket that we want to predict
- In the second step, we will predict n products which we believe that user will buy in his next order
- · TensorFlow based implementaion of SVD

Coriolis Technologies Pvt Ltd

MEMBER OF TECHNICAL STAFF

· Developer & Scrum Master for Cloud Team

- Rails Backend Development for Orchestration tool
- Development of Ansible, Chef and Puppet configuration managers
- · License Plate Recognition, Face Recognition

Skills & Courses _____

Web Technologies

Tools Git, LaTeX

Stacks MongoDB, MySQL, Neo4J Languages C, Python, Java, Go, R

Frameworks Ruby On Rails

Machine Learning Tensorflow, Keras, Pytorch, OpenAI

HTML

ISHWAR SAWALE · RÉSUMÉ JULY 7, 2018

Face Recognition System

Mindstix Software Labs Project Orchestration Chef, Puppet, Ansible

RAILS, MONGO, CHEF, PUPPET, ANSIBLE,

Client Project

FACENET, DLIB, PYTHON

- · From Facenet and Dlib face embedding extracted
- Based on obtained embedding three diffrent classification models are trained
- To tackle uknown person problem and increase accuracy, these three models stacked together

License Plate Recognition System

OPENCV, PYTHON

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

Cancer Survival Prediction

CDAC Project

- · This was group project. My role was to develop & predict model for survival of
- 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 of face recognition, I have used embedding of two faces as measure to differentiate them
- · Pretrained model from Facenet is retrained for my dataset
- · I have taken video frame at x miliseconds
- · After that, created embedding and compared 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
- · This retrained model is optimised for Android by rounding graph and making it compitable for android platform

Hand written digits classification

Open Source Contribution

JAVA, TENSORFLOW, ANDROID, KERAS

- This is an android app, which detects number drawn by user between 0 to 9
- I have used MNIST dataset for training two diffenet model with Tensorflow and
- · User can draw any digit and prediction from two models are given

Core Development Section

True Skin Tone Color Detection

Client Project

PYTHON, OPENCV, IMAGE PROCESSING

· Custom Alogrithms to get true skin color from image, independent illumination conditions

Data Migration Scripts

Client Project

PYTHON, LDAP, ORACLE DB

· Data Migration From Oracle DB to LDAP using Python

- I was 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
- Coriolis Project Using 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

I maintained & added new features

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 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

Android Apps in Kotlin

Open Source Contribution

KOTLIN, ANDROID

· Android Apps using Kotlin language