shwar Sawale

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Summary _____

I have 2+ 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 in Electronics &

Telecommunication

University Of Pune

Achived Distinction with 69.33%

Pune, India

Aug 2015 - Feb. 2016

Aug. 2011 - May. 2014

Mumbai, India

May. 2008 - Aug. 2011

• Neural Networks and Deep Learning by deeplearning.ai on Coursera • Improving Deep Neural Networks: Hyperparameter tuning, Regularization and

• Structuring Machine Learning Projects by deeplearning.ai on Coursera

• Machine Learning A-Z Hands-On Python & R In Data Science on Udemy

• Deep Learning A-Z Hands-On Artificial Neural Networks 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

ChatBots: Messenger ChatBot - DialogFlow and nodejs on Udemy

• Introduction to Recommender Systems: Non-Personalized and Content-

• Artificial Intelligence A-Z Learn How To Build An AI on Udemy

• The Complete Android Kotlin Developer Course on Udemy • Complete iOS 11 Machine Learning Masterclass Course on Udemy

Optimization by deeplearning.ai on Coursera

Practical Deep Learning with PyTorch on Udemy

• CWorkshop in Probability and Statistics on Udemy

• Building Practical Recommendation Engines on Udemy

• Nearest Neighbor Collaborative Filtering on Coursera

• Recommender Systems: Evaluation and Metrics on Coursera

• Matrix Factorization and Advanced Techniques on Coursera

Machine Learning Section _____

Diploma in Electronics & Communication

MSBTE, MUMBAI

· Achived Distinction with 85.38%

Based on Coursera

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

predict future agreements

Mindstix Software Labs Project

Pune, India NEO4J, PYTHON Feb. 2018 - PRESENT · Personalized recommender algorithm which learn from past agreements to

DATA SCIENTIST

Mindstix Software Labs

- Recommendation Systems for Retail Business
- Face Recognition Systems

Pune, India

Mar. 2016 - Feb. 2018

• 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 implementation of SVD

Face Recognition System

Mindstix Software Labs 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

- ChatBot Framework Based on RASA NLU

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

Work Experience & Responsibility _

· 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 APRIL 1, 2018

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

Data Science Section

Ghouls, Goblins and Ghosts

Open Source Contribution

Numpy, Pandas, Sklearn

kaggle.com

• "Ghouls, Goblins, and Ghosts... Boo!" dataset from Kaggle.com

· Classify monsters based on input parameters

· Used SVM, RandomForest classifiers

Machine Learning from Disaster

Open Source Contribution

Numpy, Pandas, Sklearn

kaggle.com

• "Titanic: Machine Learning from Disaster" dataset from Kaggle.com

· This is a binary classification problem

· Predict whether passenger survived or not

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

Core Development Section

Orchestration Chef, Puppet, Ansible

Client Project

Rails, Mongo, Chef, Puppet, Ansible,

REST API

• 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

· 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 CLL 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