

# Subodh Lonkar



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**GitHub:** <https://github.com/learner-subodh>

**Medium:** <https://learner-subodh.medium.com/>

**arXiv:**  
<https://arxiv.org/search/cs?searchtype=author&query=Lonkar%2C+S>

I'm a young, motivated & smart working Computer Engineer passionate about cutting-edge technology and solving real world business problems. Eager to convert data into business achievements. I strongly believe that Data, when glued with Mathematics and best suitable Machine Learning & Deep Learning algorithms possess the key to solve even the hardest of the problems in quick time. Know more about me at <https://learner-subodh.github.io/>.

## SKILLS

**Mathematics, Statistics, Machine Learning, Deep Learning, Data Analysis & Visualization, Python, SQL, Google Cloud Platform, Computer Vision, Natural Language Processing, Recommendation Systems, TensorFlow, Keras**

## EDUCATION

### o **B.E. Computer Engineering**

Savitribai Phule Pune University (formerly known as the University of Pune)

07/2015 – 06/2019

Pune, India

✓ CGPA:

9.02 – In the Top 3.33% of the Computer Engineering department

## WORK EXPERIENCE

### o **Associate Scientist, Data Science**

XPO Logistics, Inc.

08/2021 – 09/2022

Pune, India

✓ Roles & Responsibilities:

Key contributor to a Multi-Million Dollar Computer Vision project which applies OCR to Delivery Receipts and identifies the accessorial(s) used. Saved the company's revenue by *USD 12M* in a year's time.

Contributing to areas stretching to Geospatial analysis, Machine Learning & Computer Vision.

Perform EDA to identify various shortcomings, areas of improvement and propose feasible solutions.

Identified & reported a leakage of *USD 4M* per year in case of No Freight/Empty Pickup Stops through extensive EDA which was taken into consideration and keenly looked into by the Vice President of Technology.

### o **Analytics Automation Associate, R&D**

Community Brands

11/2019 – 08/2021

Pune, India

✓ Roles & Responsibilities:

Worked on different phases of Machine Learning like data preprocessing, data analysis and visualization, feature engineering & feature selection, model building and deployment.

Presented results to the Manager & the Director of R&D in forms of 6-pager reports / presentation.

Actively contributed towards the business growth by leveraging ML to identify & acquire potential customers.

Got felicitated with various awards for excelling in roles and responsibilities, also delivered various technical seminars to other teams in the R&D department.

### o **Software Developer – Machine Learning, R&D**

## Community Brands

08/2019 – 11/2019

Pune, India

✓ Tools & Technologies:

Python, SQL, Machine Learning, Deep Learning, GitHub, NumPy, Pandas, NLP, OOP, SAFe Agile methodology.

## RESEARCH PROJECTS / CASE STUDIES

### o WSDM – KKBox's Music Recommendation Challenge (*Recommendation System*)

12/2020 – 01/2021

- ✓ Case Study of a Music Recommendation Challenge held in one of the Kaggle Competitions. Achieved a Kaggle Score which placed me in the top 0.7% for this challenge.
- ✓ **Source:** <https://www.kaggle.com/c/kkbox-music-recommendation-challenge>
- ✓ **Blog:** <https://medium.com/swlh/kkbox-music-recommendation-challenge-3cfe609773a0>
- ✓ **Web App** for the Overview of EDA: <https://share.streamlit.io/learner-subodh/streamlit-example/kkbox.py>
- ✓ **GitHub:** <https://github.com/learner-subodh/Maschinelles-Lernen-und-Datenwissenschaft/tree/master/KKBox%20Music%20Recommendation%20Challenge>

### o Facial Expressions Recognition Challenge (*Computer Vision*)

05/2021 – 05/2021

- ✓ Case study for recognizing facial expressions in given input images.
- ✓ My deep learning model beats the 1st place solution in the Kaggle competition: <https://www.kaggle.com/c/facial-keypoints-detector/overview> & the 2nd place solution in the Kaggle competition: <https://www.kaggle.com/c/challenges-in-representation-learning-facial-expression-recognition-challenge/overview> on both Public & Private Leaderboards.
- ✓ Almost as good as the **State-of-The-Art** solutions for Facial Expressions Recognition.
- ✓ **Published Research Paper:** <https://arxiv.org/abs/2107.08640>
- ✓ **Dataset:** <https://www.kaggle.com/deadskull7/fer2013>
- ✓ **Video Demo:** [https://www.youtube.com/watch?v=Tx-iHP9KY5w&ab\\_channel=SubodhLonkar](https://www.youtube.com/watch?v=Tx-iHP9KY5w&ab_channel=SubodhLonkar)
- ✓ **GitHub:** <https://github.com/learner-subodh/streamlit-sharing>

## BLOGS & RESEARCH PUBLICATIONS

- o **Research Paper:** Facial Expressions Recognition with Convolutional Neural Networks- <https://ijisrt.com/facial-expressions-recognition-with-convolutional-neural-networks>, <https://arxiv.org/abs/2107.08640>
- o **The Startup:** Training an MLP From Scratch Using Backpropagation for Solving Mathematical Equations- <https://medium.com/swlh/training-an-mlp-from-scratch-using-backpropagation-for-solving-mathematical-equations-91b523c24748>
- o **The Startup:** WSDM – KKBox's Music Recommendation Challenge: <https://medium.com/swlh/kkbox-music-recommendation-challenge-3cfe609773a0>
- o **Analytics Vidhya:** Dimensionality Reduction by Stochastic Gradient Descent: <https://medium.com/analytics-vidhya/dimensionality-reduction-by-stochastic-gradient-descent-f617ebde3c1b>

## ACHIEVEMENTS

- o GATE CS/IT 2019 Qualified.
- o Ranked 6<sup>th</sup> in the National Engineering Skill Development 2019.
- o Received Spot Awards in Aptify, a certificate of appreciation for excelling in assigned tasks & responsibilities.
- o Received the Rising Star Award for exceptional performance and for valuable contributions made within first 6 months of joining in XPO Logistics.

## COURSES & CERTIFICATIONS

- o Stanford CS229 and CS231n
- o IIT Bombay Spoken Tutorial: C, C++
- o Python 101 for Data Science, IBM
- o Participated in Guinness World Record Event for Building Face Recognition Application conducted by GUVI Geek Networks, IIT Madras Research Park.