

# SUBODH LONKAR



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**Portfolio:** <https://learner-subodh.github.io/>

**LinkedIn:** <https://www.linkedin.com/in/subodh-lonkar-47662819b/>

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

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

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 at <https://learner-subodh.github.io/>.

## SKILLS

Statistics, Machine Learning, Deep Learning, Python, C++, SQL, Excel, Tableau, Computer Vision, Natural Language Processing, Recommendation Systems, TensorFlow, Keras, PyTorch.

## EDUCATION

- **B.E. Computer Engineering**  
Savitribai Phule Pune University  
07/2015 – 06/2019 Pune, India  
✓ CGPA:  
9.02 – In the Top 3% of the Computer Engineering department.

## WORK EXPERIENCE

- **Automation Associate, R&D**  
Aptify Software Development Solutions  
11/2019 – Present Pune, India  
✓ Achievements/Tasks:  
Research, Develop & analyse solutions to the automation framework. Design & implement robust, quality tests to obtain optimal data for better quality of the product. Worked on obtaining coverage of development code using a variety of tests.
- **Software Developer, R&D**  
Aptify Software Development Solutions  
08/2019 – 11/2019 Pune, India  
✓ Achievements/Tasks:  
Research & Develop solutions to software engineering problems.

## PERSONAL PROJECTS / CASE STUDIES

- **WSDM – KKBox's Music Recommendation Challenge**  
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>
- **Facial Expressions Recognition Challenge**  
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.
  - ✓ **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>
- **Quora Question Pairs Similarity Problem**  
08/2020 – 08/2020
  - ✓ Case study for identifying which questions asked on Quora are duplicates of questions that have already been asked. That is, predicting whether a pair of questions are duplicates or not.
  - ✓ **Dataset:** <https://www.kaggle.com/c/quora-question-pairs>
  - ✓ **GitHub:** <https://github.com/learner-subodh/Maschinelles-Lernen-und-Datenwissenschaft/tree/master/Case%20Study:%20Quora%20Question%20Pair%20Similarity>

## BLOGS & PUBLICATIONS

- 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>
- WSDM – KKBox's Music Recommendation Challenge: <https://medium.com/swlh/kkbox-music-recommendation-challenge-3cfe609773a0>

## ACHIEVEMENTS

- GATE CS/IT 2019 Qualified.
- Ranked 6<sup>th</sup> in the Indian Engineering Olympiad 2019.
- Received Spot Awards in Aptify, a certificate of appreciation for excelling in assigned tasks & responsibilities.

## COURSES & CERTIFICATIONS

- CS231n Andrej Karpathy: CNN for Visual Recognition
- CS229 Andrew Ng: Machine learning
- IIT Bombay Spoken Tutorial: C, C++
- Python 101 for Data Science, IBM
- Participated in Guinness World Record Event for Building Face Recognition Application conducted by GUVI Geek Networks, IIT Madras Research Park.