

SUBODH LONKAR



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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

Machine Learning, Deep Learning, Python, C/C++, SQL, Computer Vision, Natural Language Processing, Recommendation Systems, TensorFlow, Keras, PyTorch & Streaml.

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 solutions to the automation framework. Design & implement robust, quality tests to obtain optimal data & for better quality of the product. Deployment using Octopus & Microsoft Azure. Worked on obtaining coverage of development code using automated test cases.
- **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

- **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.

- ✓ **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
 - ✓ This model beats the 1st place solution in the Kaggle competition: <https://www.kaggle.com/c/facial-keypoints-detector/overview> & the 4th place solution in the Kaggle competition: <https://www.kaggle.com/c/challenges-in-representation-learning-facial-expression-recognition-challenge/overview>.
 - ✓ Dataset used is the FER2013 dataset: <https://www.kaggle.com/deadskull7/fer2013>
 - ✓ **Video Demo:** https://www.youtube.com/watch?v=Tx-iHP9KY5w&ab_channel=SubodhLonkar
 - ✓ **GitHub:** <https://github.com/learner-subodh/streamlit-sharing>
- **Classification of Images of Food Items**
02/2021 – 02/2021
 - ✓ Classified images of various food items using 3 deep learning models, namely, MobileNetv2(light), Resnet50(medium) & Inceptionv3(heavy). Dataset used is the Food-101 dataset.
 - ✓ All 3 models delivered an accuracy of over 90% on the test data.
 - ✓ **Video Demo:** <https://www.youtube.com/watch?v=5aIQyPT33Aw&t=63s>
 - ✓ **GitHub:** https://github.com/learner-subodh/Maschinelles-Lernen_und_Datenwissenschaft/tree/master/Image%20Classification%20using%20Food-101%20Dataset

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 6th 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
- Data Analysis with Python, freeCodeCamp
- Participation in Guinness World Record Event for Building Face Recognition Application conducted by GUVI Geek Networks, IIT Madras Research Park.