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.

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

- **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
- Dimensionality Reduction by Stochastic Gradient Descent: https://medium.com/analytics-vidhya/dimensionality-reduction-by-stochastic-gradient-descent-f617ebde3c1b
- 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.
- Solution to Kaggle Case Study "WSDM- KKBox's Music Recommendation Challenge" secured a place in the top 0.7% on the Kaggle leader board.
- 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

EXTRA-CURRICULAR ACTIVITIES

- Delivered a webinar to Aptify Pune full office on the topic: Introduction to and Applications of Google Analytics.
- Contributed to the idea of getting the test/code coverage of the full development code of the product, presented it & lead its end-to-end implementation in the product.