



Vinayak V. Dhage



Machine Learning Engineer

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Experience with machine learning, deep learning and wireless communication systems. Hopes to focus more on machine learning, computer vision and NLP in future career.

I am someone who is consistently growing themselves and who takes the time to continue learning even though it's not a direct requirement of the job. I find that many times it's a combination of what you study both directly and indirectly related to work.

Education

National Institute of Technology, Kurukshetra, Master's Degree, M.Tech in Electronics & Communication Engineering, 2016 ~ 2018

I completed my post-graduation with 1st class in electronics and communication engineering. My dissertation work was related to cognitive radio technology to solve the present-day problem of radio spectrum scarcity. I worked on a two different schemes to reduce to spectrum scarcity problem by the used opportunistic use of available radio spectrum.

Walchand Institute of Technology, Solapur, Bachelor of Engineering (BE), Electronics & Telecommunication Engineering, 2011 ~ 2015

I completed my graduation with 1st class in electronics and telecommunication engineering. My final year project was about created a wireless mouse using Arduino. In that project I also worked with Teensy++ to handle the wireless communication between Arduino and computer. I also worked as a member of a team which represented my institute in a national level competition SUPRA organized by SAR India, to build formula-1 car.

Sangameshwar College, Solapur, HSC, Science & Mathematics, 2009 ~ 2011

I completed my higher secondary school certification with 1st class.

Skills

Languages

- Python
- HTML
- CSS
- JavaScript
- C
- C++

Machine Learning

- Sklearn
- Scipy
- xgboost
- catboost
- H2O
- Pycaret

Deep Learning

- Tensorflow
- Keras
- PyTorch
- Fastai
- PyTorch Lightning

Data Analysis & Visualization

- Pandas
- Numpy
- Matplotlib
- Seaborn
- Plotly

Image Processing

- OpenCV
- PIL
- Matlab

Natural Language Processing

- NLTK
- SpaCy
- Transformers

Publications

- G. Verma, V. Dhage, and S. S. Chauhan, "Analysis of combined data-decision fusion scheme for cognitive radio networks", IEEE 2nd International Conference on Inventive Systems and Control (ICISC), 2018.
- V. Dhage and G. Verma, "Maximization of throughput in cognitive radio", IEEE 2nd International Conference on electronics, communication and aerospace technology (ICECA), 2018.

Work Experience

- COEP, Pandharpur, Maharashtra, Assistant Professor , Apr 2019 ~ Dec 2019
I worked as an assistant professor at COEP, Pandharpur for the mentioned duration. In that period, I also handled responsibilities related to maintenance of PA system and student mentorship, apart from teaching curriculum subjects.

Certifications

- Estimation of wireless communications: MIMO-OFDM cellular and sensor network - NPTEL
- Programming, Data Structures and Algorithms using Python - NPTEL
- Neural Networks and Deep Learning - Coursera
- Deep Learning with Pytorch: Zero to GANs - Jovian.ml
- Learn Natural Language Processing - Codecademy
- Machine Learning for Business Professionals - Coursera
- Complete Tensorflow 2 and Keras Deep Learning Bootcamp - Udemy

Achievements

- Won national Robotics Championship organized by IIT Bombay.
- Part of a team which built a formula car to represent my institute at national level event SAE SUPRA.
- Kaggle - Titanic: Machine Learning from Disaster (Top 6%)
- Kaggle - Zero to GANs - Human Protein Classification (Top 12%)
- Analytics Vidya -Age detection of actors challenge: Ranked 7th

Personal Information

- Languages : English, Hindi, Marathi
- Interest : Cricket, video games, chess, internet surfing, travelling
- My website : <https://thatguydv.github.io>