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Cesson Sevigne 35510 France

Contact
+919619997797
pranavn91@gmail.com

Date of Birth
24.04.1991

PROFILE

Researcher in Data Science. Seeking to leverage my technical and professional expertise.

SOFTWARE SKILLS

- Python3-Keras,Sklearn
- Python3-Seaborn,Matplotlib
- Python3-Numpy, Pandas
- R-Caret, Devtools
- Latex
- HTML5, Bootstrap4,CSS3
- Google, Bing Webmasters tools

LANGUAGES

- French
- English
- Hindi, Marathi (Indian)

CERTIFICATION

- Deep Learning by Coursera (2017)
- Machine Learning by Coursera (2017)
- Network Analysis by Coursera (2017)
- Convolutional Neural Networks by Coursera (2018)
- Recurrent Neural Networks by Coursera (2018)
- Hyper-parameter Tuning by Coursera (2018)
- Structuring Machine Learning Projects by Coursera (2018)
- Artificial Intelligence by IBM (2019)
- Data Science by IBM (2020)

PUBLICATIONS PROFILE

https://www.researchgate.net/profile/Pranav_Nerurkar

- Published in Journals:7
- Communicated to Journals:6
- Published in Conferences:14
- Communicated to Conferences:2
- Google Scholar: Citations: 68, H-index: 3, i10-index: 2
- Scopus: Citations: 42, H-index: 3, i10-index: 2
- Web of Science: Citations: 17, H-index: 2, i10-index: 1

PRANAV NERURKAR

Linkedin
linkedin.com/in/pranav-nerurkar-85a3a497

WWW
http://scholar.google.com/citations?user=VsYdrBsAAAAJ

Github
http://github.com/pranavn91/

EDUCATION

06.2016 - present
VJTI, University of Mumbai, Mumbai, India
Computer Engineering (Doctorate [Bac+8]) (Defence pending)

06.2013 - 06.2015
University of Mumbai, Mumbai, India
Computer Engineering (Masters [Bac+5])

06.2008 - 06.2012
University of Mumbai, Mumbai, India
Computer Engineering (Bachelors [Bac+3])

EXPERIENCE

03.2020 - 08.2020
SRCD Department IMT Atlantique Rennes
Raman Charpak Fellow
Detecting Illegal transactions in Bitcoin network

11.2019 - present
NMIMS University, India
Assistant Professor
Trainer in LSTM, GRU, RNN, Bidirectional LSTM

07.2019 - 11.2019
Atharva College of Engineering, Mumbai, India
Assistant Professor
Trainer in CNN, Object detection, DGGAN, 1D-CNN

07.2015 - 05.2016
Atharva College of Engineering, Mumbai, India
Assistant Professor
Trainer in Bagging, Boosting, Ensemble methods

07.2012 - 01.2013
St Francis Institute of Technology, Mumbai, India
Lecturer
Trainer in Decision Trees, Logistic regression, SVM

HOBBY

SEO | Technology | Swimming

CONFERENCE PUBLICATIONS

- ACM Proceedings (2019) - https://dl.acm.org/doi/abs/10.1145/3312614.3312627
- Advances in Intelligent Systems and Computing (2018) - https://doi.org/10.1007/978-981-13-1132-1_23
- Computing, Communication and Signal Processing (2018) - https://doi.org/10.1007/978-981-13-1513-8_32
- Advances in Intelligent Systems and Computing (2018) - https://doi.org/10.1007/978-981-13-1132-1_2
- Advances in Intelligent Systems and Computing (2018)- https://doi.org/10.1007/978-981-13-1513-8_23
- Advances in Intelligent Systems and Computing (2018)- https://doi.org/10.1007/978-981-13-0514-6_72
- *Procedia Computer Science (2017) - https://doi.org/10.1016/j.procs.2017.12.100*
- Procedia Computer Science (2017)- https://doi.org/*10.1016/j.procs.2017.12.099*

JOURNAL PUBLICATIONS

- Transactions on Emerging Telecommunications (2020)- https://doi.org/10.1002/ett.3988
- Turkish Journal of Electrical Engineering & Computer Sciences (2019) - https://10.3906/elk-1807-333
- Turkish Journal of Electrical Engineering & Computer Sciences (2019)- https://10.3906/elk-1806-91
- Turkish Journal of Electrical Engineering & Computer Sciences (2019) - https://10.3906/elk-1806-103
- Computer Science (2019) - https://journals.agh.edu.pl/csci/article/view/3167
- International Journal of Information Technology (2019) - https://doi.org/10.1007/s41870-019-00354-2
- International Journal of Information Technology (2019) - https://doi.org/10.1007/s41870-019-00344-4

ACADEMIC AND RESEARCH PROJECTS

- **Facial expression recognition (2020) -** built and trained a convolutional neural network (CNN) in Keras from scratch to recognize facial expressions. The data consisted of 48x48 pixel grayscale images of faces. The objective was to classify each face based on the emotion shown in the facial expression into one of seven categories (0=Angry, 1=Disgust, 2=Fear, 3=Happy, 4=Sad, 5=Surprise, 6=Neutral).
- **Facial Key point recognition (2020) -** Built a deep learning model based on Convolutional Neural Network and Residual blocks using Keras with Tensorflow 2.0 as a backend for facial key point recognition
- **Neural Style transfer (2020)-** created content and style models, computed content and style costs and ultimately ran a training loop to optimize a proposed image which retains content features while imparting stylistic features from another image
- **Fake News Detection with Machine Learning (2020) -** trained a Bidirectional Neural Network and LSTM based deep learning model to detect fake news from a given news corpus.
- **English/French Translator: Long Short Term Memory Networks (2020) -** trained a Long Short Term (LSTM) Network to perform English to French Translation
- **Named Entity Recognition using LSTMs with Keras (2020) -** used the Keras API with TensorFlow as its backend to build and train a bidirectional LSTM neural network model to recognize named entities in text data
- **Understanding Deepfakes with Keras (2020) -** implemented DCGAN or Deep Convolutional Generative Adversarial Network, and you will train the network to generate realistic looking synthesized images
- **Explainable AI: Scene Classification and GradCam Visualization (2020)** - used Convolutional Neural Networks (CNNs) and Residual Blocks to detect the type of scenery in images
- **Transfer Learning for Food Classification (2020)** - trained a deep learning model to predict the type of food and then fine tune the model to improve its performance
- **Convolutions for Text Classification with Keras (2020)** - worked on classifying a large number of Wikipedia comments as being either toxic or not
- **Classify Radio Signals from Space using Keras (2020)** - used Keras to solve an image classification problem. The data used consisted of 2D spectrograms of deep space radio signals collected by the Allen Telescope Array at the SETI Institute.

Pranav Nerurkar

Personal Data

Place and Date of Birth:	Rennes, France | 24 April 1991
Phone:	+91 9619997797 / +91 7021743410
email:	panerurkar_p16@ce.vjti.ac.in
Google Scholar:	Citations: 64, H-index: 3, i10-index: 2
Scopus:	Citations: 42, H-index: 3, i10-index: 2
Web of Science:	Citations: 17, H-index: 2, i10-index: 1

Research Publications in Journals

- Securing Logistics System and Supply Chain using Blockchain. Wiley Applied Stochastic Models in Business and Industry (2020) (Communicated)
- Towards cough sound analysis using the internet of things and deep learning for pulmonary disease prediction. Wiley Transactions on Emerging Telecommunications Technologies (2020) (Communicated)
- Investigations of Residual Graph Convolutional Network for Representation Learning. Neurocomputing (2020) (Communicated)
- Supervised Learning model for Identifying illegal activities in Bitcoin. Springer Applied Intelligence (2020) (Communicated)
- Dissecting bitcoin blockchain: Empirical Analysis of Bitcoin network (2009-2020). Elsevier Journal of Network and Computer Applications (2020) (Accepted)
- Internet of Things based Pulmonary disease prediction through cough spectrograms. Springer Multimedia Tools and Applications (2020) (Accepted)
- Multilabel classification of remote sensed satellite imagery. Wiley Emerging Telecommunication Transactions (2020) (Accepted)
- Survey of network embedding techniques for social networks. Turkish Journal of Electrical Engineering Computer Sciences 27.6 (2019).
- Exploring convolutional auto-encoders for representation learning on networks. Computer Science 20.3 (2019).
- Understanding attribute and social circle correlation in social networks. Turkish Journal of Electrical Engineering Computer Sciences 27.2 (2019).
- Measurement of network-based and random meetings in social networks. Turkish Journal of Electrical Engineering Computer Sciences 27.2 (2019).
- Understanding structure and behavior of systems: a network perspective. International Journal of Information Technology (2019). (Springer)
- Empirical analysis of synthetic and real networks. International Journal of Information Technology (2019). (Springer)

Research Publications in Conferences

- Detecting illicit entities in Bitcoin using supervised learning of ensemble decision trees. In Proceedings of the International Conference on Information Communication and Management. ACM. (2020) (Communicated)

- Representation learning for social networks using Homophily based Latent Space Model. In Proceedings of the International Conference on Omni-Layer Intelligent Systems (pp. 38-43). ACM. (2019)
- A comparative analysis of community detection algorithms on social networks. In Computational Intelligence: Theories, Applications and Future Directions-Volume I (pp. 287-298). Springer, Singapore. (2019)
- Performance of internal cluster validations measures for evolutionary clustering. In Computing, Communication and Signal Processing (pp. 305-312). Springer. (2019)
- Empirical analysis of data clustering algorithms. Procedia Computer Science, 125, 770-779. Elsevier. (2018)
- A novel heuristic for evolutionary clustering. Procedia Computer Science, 125, 780-789. Elsevier. (2018)
- Community detection using node attributes: A non-negative matrix factorization approach. In Computational Intelligence: Theories, Applications and Future Directions-Volume I (pp. 275-285). Springer. (2018)
- Analysis of probabilistic models for influence ranking in social networks. In Computing, Communication and Signal Processing (pp. 215-223). Springer. (2018)

PhD Supervisor

Dr. Sunil G. Bhirud
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Research Guide

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