Sumit Pandey

Research Assistant (Machine Learning)

Profile

- A Master Degree student with 2 years experience of data science and Machine Learning projects.
- Participated at Kaggle Competition and Ranked top 10 % in one competition, Currently Kaggle Contributor
- Experienced in transferring real problem into requirements and solution planning.

Employment History

Part-time Research Assistant, CReST, Chang Gung University, Taoyuan (Taiwan)
FEBRUARY 2018- JUNE 2020

- Published 2 SCI indexed Journal papers and 2 conference papers in predictive maintenance.
- Completed my MS thesis under Professor Cher Ming Tan.

Part-time Research Assistant, Dry Lab, Chang Gung Memorial Hospital, Linkou (Taiwan)
NOVEMBER 2018- JUNE 2020

Completed two projects in medical deep learning:

- Flu-classification using Deep Learning.
- Pneumonia Chest X-ray Classification using ResNet-50.

Education

Master of Science, Chang Gung University, Taoyuan (Taiwan), GPA: 3.78
FEBRUARY 2018- JUNE 2020

Thesis: Machine Learning Based Prediction and Analysis Algorithms.

Bachelor of Technology, Uttarakhand Technical University, (India), Percentage: 68%
JUNE 2012- JUNE 2016

Thesis: Automatic Fire Initiated Breaking and Alert System for Trains.

Research Papers

Cher Ming Tan, Udit Narula, Lu An Lai, Sumit Pandey, Jung Hua Tung, Chung Yi Li, *"Optimal Maintenance Strategy on Medical Instruments used for Haemodialysis Process"*, Eksploatacja I Niezawodność - Maintenance And Reliability accepted on February 2019.

Sumit Pandey, Cher Ming Tan, Hsiao-Wen Chen, Yao En Xie, Jung Hua Tung, Yu-Chuan Kau, Chia- Chih Liao. *'Pulse Oximeter for Low SpO2 Level Detection Using Discrete Time Signal Processing Algorithm'*, Journal of Medical Devices, Transaction of ASME (American Society of Mechanical Engineers)

Sumit Pandey, Abhishek Mishra, Sandeep Sharma. *"Automatic Fire Initiated Braking And Alert System For Trains"* ,ISBN-13: 978-1-4799-1734-1, IEEE explore.

V Kumar, S Pandey, A Pal, S Sharma, *Edge Detection Based Shape Identification,* arXiv preprint

Languages

Hindi, English, Sanskrit, Mandarin (Survival), Kumaoni

Details
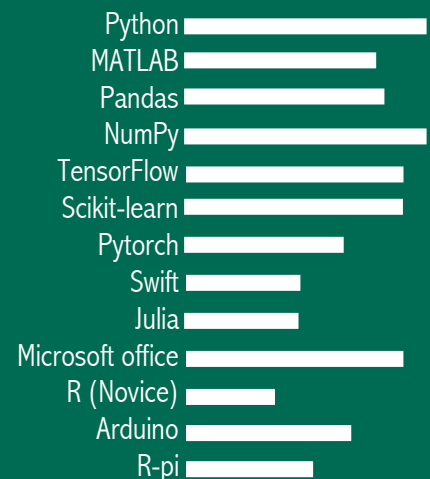
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- Website: http://sumit-ai.me
- GitHub: https://github.com/Sumit-ai

Skills

Python
MATLAB
Pandas
NumPy
TensorFlow
Scikit-learn
Pytorch
Swift
Julia
Microsoft office
R (Novice)
Arduino
R-pi

Extra Courses

- "6.86x: Machine Learning with Python-From Linear Models to Deep Learning", Massachusetts Institute of Technology.
- "Neural Networks and Deep Learning", DeepLearning.ai
- "Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization", DeepLearning.ai
- "Convolutional Neural Networks", DeepLearning.ai
- "Structuring Machine Learning Projects", DeepLearning.ai
- "Sequence Models", DeepLearning.ai
- "Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning", DeepLearning.ai