Noushad Puthen Peedikayil

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OBJECTIVE

Experienced full stack developer excellent at juggling multiple tasks & working under pressure. Broad industry experience with extensive exposure to startup environments. 6+ years of professional expertise with strong leadership & relationship-building skills.

Work Experience

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German Center for Neurodegenerative Diseases (DZNE)

Bonn, Germany 2018–2020

Research Assistant, Image Analysis Group

- Led the development of optimized 3D CNN blocks for full-volume neuroanatomical segmentation through efficient reparameterization
- Developed architectures for optimized memory-usage during training to promote model reusability in semantic segmentation in medical imaging

Jadavpur University

Kolkata, India

Junior Research Fellow, Dept. of Computer Science & Engg.

2016-2017

- Applied recurrent neural networks and classical time series analysis algorithms to the problem of appliance energy usage prediction
- Implemented distributed gradient descent algorithms by developing a PySpark wrapper for a Keras and Flask framework

Indian Statistical Institute

Kolkata, India

Project Trainee (Intern), Computer Vision and Pattern Recognition Unit

2015-2016

- Developed supervised-layerwise deep CNNs for document classification on limited data

SKILLS

Technical Proficiency

- Proficient: Python, NumPy, Scikit-Learn, PyTorch, Git, LATEX, Matplotlib
- Familiar: Linux (Usage and Shell Scripting), C, SciPy, R, SQL, Apache Spark, Matlab, Keras, Pandas, Docker

Relevant Courses

Machine Learning, Technical Neural Networks, Data Science & Big Data, Distributed Big Data Analytics, Data Analytics and Visualization, Knowledge Graph Analysis, Deep Learning for Visual Recognition, Pattern Recognition, Deep Learning on GPUs, Advanced Deep Learning for Graphics

EDUCATION

University of Kannur

Govt Eng College, Wayanad 2010–2014

Bachelor of Technology, Computer Science and Engineering

- Thesis:

Publications (Selected)

SCHOLAR_LOGO_

- A. Das, S. Roy, U. Bhattacharya, S.K. Parui, "Document Image Classification with Intra-Domain Transfer Learning and Stacked Generalization of Deep Convolutional Neural Networks," 24th International Conference on Pattern Recognition (ICPR), Beijing, China, 2018.
- S. Roy, N. Das, M. Kundu, M. Nasipuri, "Handwritten Isolated Bangla Compound Character Recognition: A new benchmark using a novel deep learning approach," Pattern Recognition Letters, Elsevier, Vol. 90, pp.15-21, 2017.

S. Roy, A. Das, U. Bhattacharya, "Generalized Stacking of Layerwise-trained Deep Convolutional Neural Networks for Document Image Classification," 23rd International Conference on Pattern Recognition (ICPR), Cancun, Mexico, 2016.

Projects "Github_Logo

- Implementation of Autoencoders, GANs (Advanced Deep Learning course)
- Deep CNNs for Humanoid Robot Part Detection and Localization (Vision Systems lab)
- Implementation of Logistic Regression, MLPs, CNNs, VGGNets, ResNets, LSTMs, GRUs, Transfer Learning based Nets (Vision Systems lab)
- Scalable Evolutionary Algorithm for Association Rule Mining from Ontological Knowledge Bases using Apache Spark (Distributed Big Data lab)
- Deep Convolutional GAN retraining on ImageNet-1k (Deep Learning lecture assignment)
- Implementation of Decision Trees and Rules, NN Classifiers, Ridge Regression (Machine Learning course)
- Deep CNN-LSTM Networks for Electric Load and Wind Power Forecasting
- Supervised Layerwise training of Deep CNNs for Character and Document Recognition

Professional Service

Reviewer (Selected): ICPR (2018), Language Resources and Evaluation, Springer (2018), Sadhana, Springer (2019, 2020), IEEE Access (2019), IET Information Security (2020)

MISCELLEANEOUS

- GATE Scholarship (2013–2015) for Postgraduate Studies, Govt. of India.
- Erasmus Mundus FUSION Scholarship for PhD mobility between Jadavpur University, India and University of Evora, Portugal (Did not accept offer)