Ninad Khargonkar

44K Southpoint Dr, Amherst, MA - 01002

Education

Expected 2019 **UMass Amherst**
M.S in Computer Science
GPA: 4.0/4.0

Grad. 2017 **IIT–Kanpur**
B.S in Mathematics & Computing
GPA: 8.4/10.0

Experience

Programming Assistant

Sep'17 – Present | Biostatistics, UMass Amherst

Assisting in the coding of the FPET simulation exercises, package development and providing computational assistance in R programming.

Mitacs Globalink Research Internship

May–July'16 | University of Manitoba, Winnipeg

Implemented scale down sampling on social graphs by different types of random walks and their performance was analyzed. ERGM (statistical graph model) was used for testing significance of network substructures by simulations and model fits.

Technical skills

Programming: Python, C/C++, R

Software Matlab, OpenCV & Tensorflow

Others: Git, Vim, LaTeX, Linux (Ubuntu)

Coursework

Graduate level: Computer Vision, Machine Learning, Natural Language Processing, Neural Networks, Bayesian Learning, Visual Recognition.

Undergrad: Optimization, Data Structures & Algorithms, Probability & Statistics, Numerical Computation, Linear Algebra, Real Analysis.

Extra – Curricular

• Developed a simulation model in R for Euro16 tournament and analyzed biases in group stage.

• Mentored 6 freshmen as a student guide in the Counselling Service of IIT-Kanpur.

• Member of the winning team of Institute Football League and an avid participant of Fantasy Premier League.

Contact Information

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Projects

Depth from Monocular Images

Sep'17 – Dec'17 | Computer Vision (UMass Amherst)

Studied the problem of depth prediction in monocular images through an unsupervised approach. Stereo image pairs were used during training to learn a disparity and hence the depth map. Code was written in Tensorflow.

Modelling Uncertainty in Deep Learning

Sep'17 – Dec'17 | Deep Learning (UMass Amherst)

Analyzed the problem of modelling uncertainty in the outputs from a deep neural network to make the results more interpretable. Implemented a simple network incorporating the uncertainty values on cifar-10 and mnist.

Hindi POS tagging using transfer learning

Sep'17 – Dec'17 | Natural Language Processing

Developed a part of speech (POS) tagger for Hindi by learning a word level translation between Hindi and English using mono-linugal word embeddings and parallel corpora. No supervised pos information was provided and the tagger improved the performance of proxy tasks.

Stochastic Variational Inference

Jan'17 – Apr'17 | Bayesian Learning (IIT-Kanpur)

Conducted literature review of Variational Inference and its stochastic extension (SVI). Implemented SVI on a Latent Dirichlet Allocation model for document – topic categorization in Python.

Scholastic Awards

• Recipient of **Inspire scholarship** awarded by the Dept. of Science & Technology (Govt. of India).

• Awarded **Mitacs Globalink** scholarship for summer research internship in Canada in 2016.