

Ninad Khargonkar

linkedin.com/in/ninadkhargonkar | ninad.khargonkar@gmail.com | ninception.github.io | 413-345-9601

EDUCATION

| | |
|--|------------------------------|
| University of Massachusetts, Amherst M.S in Computer Science — GPA: 4.0/4.0 | Amherst, MA Expected 2019 |
| Indian Institute of Technology, Kanpur B.S in Mathematics and Scientific Computing | Kanpur, India 2013 – 2017 |

EXPERIENCE

| | |
|---|---------------------------------|
| Research Assistant University of Massachusetts, Amherst | Amherst, MA Sep–Nov 2017 |
| <ul style="list-style-type: none">• Worked for Prof. Leontine Alkema on a simulation project on statistical indicators for family planning.• Assisted in coding the simulation exercises and modelling experiments in R programming language. | |
| Research Assistant (Mitacs Globalink Internship) University of Manitoba, Winnipeg | Winnipeg, Canada Summer 2016 |
| <ul style="list-style-type: none">• Implemented scale down sampling on graphs using different random walks and analyzed their performance.• Statistical graph models were used to test significance of network substructures by simulations.• Worked on a side project on simulating team performance in Uefa Euro'16 and submitted report to JSM 2017. | |

PROJECTS

| | |
|--|-------------------------------|
| Modelling Uncertainty in Deep Learning University of Massachusetts, Amherst | Amherst, MA Nov–Dec 2017 |
| <ul style="list-style-type: none">• Analyzed the problem of modelling uncertainty in the results from the outputs/scores of a deep neural network.• Coded a neural network in Keras (python) for the uncertainty value calculation on cifar-10 and mnist datasets. | |
| Depth from Monocular Images University of Massachusetts, Amherst | Amherst, MA Nov–Dec 2017 |
| <ul style="list-style-type: none">• 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. | |
| Hindi Part of Speech tagging University of Massachusetts, Amherst | Amherst, MA Nov–Dec 2017 |
| <ul style="list-style-type: none">• Developed a part of speech (POS) tagger for Hindi by learning a word level translation between Hindi and English using mono-lingual word embeddings and parallel corpora.• No supervised pos information was provided and the tagger improved the performance of proxy tasks. | |
| Stochastic Variational Inference IIT-Kanpur | Kanpur, India Jan–Apr 2017 |
| <ul style="list-style-type: none">• Conducted literature survey of Variational Inference and its stochastic extension – SVI.• Implemented SVI on a Latent Dirichlet Allocation model for document-topic categorization in Python. | |

TECHNICAL SKILLS

Programming: Proficient in Python | Basic level – C / C++, R, Matlab

Frameworks: Numpy, Scipy, PyTorch/Keras, Scikit-learn

Other Tools: Git, Bash, Vim, Emacs, LaTeX, HTML/CSS

RELEVANT COURSES

Graduate: Machine Learning, Optimization, Neural Networks, Bayesian Learning, Information Theory.

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

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.