

EDUCATION

MASTERS

Machine Learning and Data Mining Aalto School of Science Grade - 4.07 Graduation 2017 Tentative

UNDERGRADUATE

Computer Science Visvesvaraya Technological University Grad May 2011 | Bangalore, India

COURSEWORK

MASTERS

- Special Course on Deep Learning
- Machine Learning and Neural Networks
- Bayesian Data Analysis
- Machine Learning Basic Principles
- Algorithmic Methods of Data Mining
- Computational Science

MOOC

Learning From Data (edX.org):

- Instructor : Prof Yaser (Caltech)
- 10 week long Machine Learning course with 8 homework sets and a final exam Assignments done using Matlab and LibSVM
- Course with significant theoretical content. Topics include: Theory of Generalization, VC Dimensions, Kernel Methods and SVM Grade: 80%

Machine Learning (Coursera):

- Instructor: Prof Andrew (Stanford)
- 10 week long course.
- Assignments done in Octave.
- Practical course focusing more on applications of machine learning.
- Grade: 100%

SKILLS

PROGRAMMING

Full Professional Proficiency:
Python (Including Numpy, Scipy, SciKit Learn) • Java • Shell

Working Proficiency:

• Theano • Stan (Probabilistic Programming) • Matlab & Octave • C • C++ • SQL

Familiar:

Javascript • Assembly • CSS • LATEX

EXPERIENCE

AMAZON | Software Development Engineering in Test

Dec 2013 - Aug 2015 | Bangalore, India

• Significant Contribution: Developed tests to validate the effect of seasonality on an Shoe size recommendation system which uses customer purchases to make predictions. Implemented using Java.

AMAZON | Quality Assurance Engineer

Aug 2011 - Nov 2013 | Bangalore, India

- Developed a system to automatically detect UI defects (text overlaps, element mis-alignments etc) in Amazon retail websites. It was developed using Python and "Image Magick".
- Implemented a log processing system to identify new Errors/Fatals in website logs. Developed using Python and Amazon internal tools for distributed job scheduling.

OWNCLOUD.ORG | Google Summer of Code Intern

May 2011 - Aug 2011

Implemented a prototype file synchronization system for OwnCloud.
 Implemented the SyncML server component in PhP and a prototype desktop client using the Funambol SyncML SDK.

DIGIKAM.ORG | Season of KDE Intern

May 2010 - Sept 2010

• Prototyped the Integration of Qt Script, Javascript scripting API into the Digikam app.

THESIS & PUBLICATIONS

- [1] G. Kunal, M. GuruPrasad, S. Dharini, and J. L. KiranTej. Senior thesis on face recognition. *Compared the effect on recognition accuracy of Eigen Faces, when applying three different dimensionality reduction algorithms on the input images. I implemented PCA and Locality Preserving Projections (LPP)*, Implementation: Python + NumPy, 2011.
- [2] G. Kunal, M. GuruPrasad, S. Dharini, J. L. KiranTej, and V. Hariharan. Analysis and understanding of various models for efficient representation and accurate recognition of human faces. *Proceedings of National Conference on 'Emerging Trends in IT' eit10*, March 2010.

AWARDS

- 2014 2nd/100 teams. Amazon Internal Machine Learning Contest. (Predict Customer Support communication method Phone/Email based on customer hisory).
- 2013 99.5 percentile in GATE 2013. 1019th/224160 candidates.
- 2004 29th/~2x10⁵ candidates. National Talent Search Scholarship. State Level.

ACTIVITIES

- ACM Student member since 2007 and a Professional Member since 2013.
- Organized a workshop on "Python in Scientific Computing" led by a team from IIT Bombay and Funded by Govt. of India.
- Regularly participated in long distance running events: Personal Best of 56mins in 10K and 2hr 20mins in a half marathon.