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Kunal Ghosh

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EDUCATION

MASTERS
Aalto School of Science
Machine Learning and Data Mining Major
Grade - 4.07

UNDERGRADUATE
Visvesvaraya Technological University
BE in Computer Science
First Class
68.78%
Grad May 2011 | Bangalore, India

CMR NPS
CMR National Public School
Grad. May 2007 | 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) • Java • Shell
Working Proficiency:
Matlab & Octave • C • C++ • SQL
Familiar:
Javascript • Assembly • CSS • LaTeX

OPERATING SYSTEMS
• Linux • Windows • Solaris

AWARDS

2013 99.5 percentile in GATE 2013. 1019^{th}/224160 candidates.
2014 2^{nd}/100 teams. Amazon Internal Machine Learning Contest.
2004 29^{th}/~$2x10^5$ candidates. National Talent Search Scholarship. State Level.

EXPERIENCE

AMAZON | Software Development Engineering in Test
Dec 2013 - Present | 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.

ACTIVITIES

- ACM Student member since 2007 and a Professional Member since 2013.
- Taught Linux Shell Scripting and Python programming at Linux User's Group meets at College.
- 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.