

Abhishek Kumar

PERSON INFORMATION

DOB: 25 December 1993
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AREA OF INTERESTS

Statistical Machine Learning: Theory & Applications in Finance & Recommender System, Sponsored-Search Auctions, Algorithmic Mechanism Design, Data Mining/Big Data

EDUCATION

Ph.D. in Information Technology & Systems, Indian Institute of Technology Delhi (IIT Delhi) Starting from Jan 2016

M.S. in Knowledge Service Engineering, 90.44/100 Sept 2014 – Aug 2016
Korea Advanced Institute of Science & Technology (KAIST), South Korea
Adviser: Professor Aviv Segev

B.Tech. in Computer Science & Engineering*, 8.81/10 2010 - 2014
4th year

Handong Global University, Pohang, South Korea 2013 - 2014
(Student Exchange Program)

1st year – 3rd year
National Institute of Technology Patna (NIT Patna), India 2010 - 2013
(Rank 2 in class of 56 students)

All India Senior School Certificate Examination (12th CBSE), 73.6% 2010
Sri Guru Teg Bahadur Public School, Patiala, Punjab

All India Secondary School Examination (10th CBSE), 92.8% 2008
Saraswati Vidya Mandir, Bettiah, Bihar

**Final degree conferred from NIT Patna*

AWARDS & HONOURS

KAIST Graduate Scholarship Sept 2014 – Jun 2016

Handong Cornerstone Scholarship Mar 2014 – Jun 2014

NIIED Scholarship by Korean Government Sept 2013 – Dec 2013

2nd Prize, Algo-Z-Ripper (Algorithm Design) 2012
CORONA (Annual Technical Festival of NIT Patna)

3rd Prize, TechQuiddich (Digital Circuit Design) 2011
CORONA (Annual Technical Festival of NIT Patna)

SPONSORED RESEARCH PROJECTS

Development of Exobrain Software, Wise Knowledge Base Mar 2015 – Feb 2016

Research Topic: Trust Validation of Knowledge using Web

Principle Investigator: Prof. Aviv Segev

(Funded by the Ministry of Science, ICT and Future Planning and Korea Evaluation Institute of Industrial Technology)

Key Areas: *Natural Language Processing, Ontology, Artificial Intelligence*

Personalized E-learning Recommender Systems based on Knowledge Structures

Research Topic: Development of an e-learning system utilizing knowledge structures created from documents studied by users.

Sept 2014 – Nov 2014

Principle Investigator: Prof. Mun Yong Yi

(Funded by the Korean National Research Foundation)

Key Areas: *Ontology, Data Mining, Artificial Intelligence*

NON-SPONSORED RESEARCH PROJECTS

Detection and Analysis of Psoriasis disease using Image Mining (*manuscript under preparation for submission into a journal specialized for Image Processing*)

Key Areas: *Image Processing*

Continuous space navigation with multiple task steps through Reinforcement learning with a Recurrent Neural Network

Key Areas: *Motion Planning, Neural Network, Reinforcement Learning*

Behavior Mechanism Design: Risk Aversion vs. Risk Neutrality in Crowdsourcing Contest

Key Areas: *Mechanism Design, Crowdsourcing Contests*

COMPUTER SKILLS

Programming Languages: C, C++, Java, Python, Scala

Statistical Analysis & Machine Learning Software: R, Weka

Other: MATLAB, SQL, Android, Hadoop, MS Office, Xilinx ISE

PUBLICATION

Hyun-Gook Kang, Won-Jun Nah, Abhishek Kumar, Jae-Gil Lee, “**Prediction of Changes in Communities by Utilizing Time Series Forecasting Models**” In Proceedings of Korea Computer Congress 2015, 25/06, 2015

Key Areas: *Social Network, Data Mining*

Abhishek Kumar, “**Bayesian ensembled Mean-Median Reversion based Strategy for On-line Portfolio Selection**” Master Thesis, KAIST, 2016

Key Areas: *Machine Learning*

OTHER ACADEMIC & PROFESSIONAL ACTIVITIES

Visiting Student
Cognitive Neuro-Robotics Lab, Electrical Engineering, KAIST

Aug 2015 – Dec 2015

Teaching Assistant
Statistics for Economics and Management

Spring 2014

Summer Trainee
LinuxWorld Pvt. Ltd., India

June 2013 – July 2013

Event Organizer, CORONA,
Division: Computer Science & Information Technology, NIT Patna

2013

Training and Placement Coordinator
Department of Computer Science & Engineering, NIT Patna

Jan 2013 – Aug 2013

Summer Trainee
Nettech Pvt. Ltd. India

May 2012 – July 2012

Summer Trainee
Brics, Indian Institute of Technology Kanpur

April 2011 – May 2011

RELEVANT COURSES TAKEN

Data Mining, Analytical Methodologies for Big Data, Knowledge Engineering & Intelligent Decision Making, Business Intelligence, Mobile & Pervasive Computing for Knowledge Services

REFERENCES

Prof. Aviv Segev
Associate Professor
Email: aviv@kaist.edu
Homepage: <http://kse1.kaist.ac.kr/~aviv/>

Prof. Mun Yong Yi
Full Professor & Department Chair
Email: munyi@kaist.ac.kr
Homepage: http://kirc.kaist.ac.kr/people_director.php