

Abhishek Kumar

PERSON INFORMATION

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ABOUT ME

I have 2 years of experience of working in field of machine learning & data mining for industry sponsored projects. I am looking forward to working on exciting problems from field of artificial intelligence, useful from commercial or research perspective.

AREA OF INTERESTS

Current: Artificial Intelligence, Machine Learning and Applications in Recommender Systems & Finance,
Data Mining/Big Data, Sponsored Search Auctions
Past: Social Network, Natural Language Processing

EDUCATION

Ph.D. in Information Systems, <i>Special Focus in Machine Learning</i> Indian Institute of Technology Delhi (IIT Delhi)	Jan 2017 – Present
M.S. in Knowledge Service Engineering, 90.44/100 Korea Advanced Institute of Science & Technology (KAIST), South Korea <i>Adviser: Professor Aviv Segev</i>	Sept 2014 – Aug 2016
B.Tech. in Computer Science & Engineering*, 8.81/10 4 th year Handong Global University, Pohang, South Korea (Student Exchange Program)	2010 - 2014 2013 - 2014
1 st year – 3 rd year National Institute of Technology Patna (NIT Patna), India (Rank 2 in class of 56 students)	2010 - 2013
All India Senior School Certificate Examination (12 th CBSE), 73.6% Sri Guru Teg Bahadur Public School, Patiala, Punjab	2010
All India Secondary School Examination (10 th CBSE), 92.8% Saraswati Vidya Mandir, Bettiah, Bihar	2008

*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)
CORONA (Annual Technical Festival of NIT Patna)

2012

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

2011

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)

Keywords: 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)

Keywords: 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*)

Keywords: Image Processing

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

Keywords: Motion Planning, Neural Network, Reinforcement Learning

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

Keywords: Mechanism Design, Crowdsourcing Contests

Autonomous mobile robot in maze environment

Keywords: Motion Planning, Neural Network

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, HBase, Hive, Apache Spark, Apache Pig

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

Keywords: Social Network, Data Mining

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

Keywords: 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
Intern 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, KAIST
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Homepage: <http://kse1.kaist.ac.kr/~aviv/>

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