

Akash Singh

DATA SCIENCE · MACHINE LEARNING

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Education

KTH Royal Institute of Technology

Stockholm, Sweden

MS IN DATA SCIENCE

August 2016 - Present

- Second year of Dual Degree Master Program. Ongoing.
- Specialization: Distributed systems & Data Mining for Big Data.

Eindhoven University of Technology

Eindhoven, Netherlands

MS IN DATA SCIENCE

August 2015 - June 2016

- First year of Dual Degree Master Program. Grade 8/10.
- Major Data Science. Minor in Entrepreneurship & Innovation.

GGs Indraprastha University

Delhi, India

MASTER IN COMPUTER APPLICATIONS

August 2007 - June 2010

University of Delhi

Delhi, India

B.Sc.(HONORS) COMPUTER SCIENCE

August 2004 - June 2007

Experience

Ericsson Research

Stockholm, Sweden

STUDENT RESEARCHER (MASTER THESIS)

Jan. 2017 - Present

- Working with the machine learning group on anomaly detection for high dimensional data.
- Using deep learning techniques (autoencoder, LSTM) and Gaussian Process.

99acres.com (Info Edge India Ltd.)

Noida, India

LEAD ENGINEER

May.2013 - Jul. 2015

- A part of 99acres' search and analytics team. Tasks included managing 99acres' search system, data analysis, machine learning, and data visualization.
- Technologies I used include JAVA, R, Apache Solr, MongoDB, MapReduce, PHP.
- Some of the projects I worked at are:
 - **Search Rank Framework:** Built a framework for computing search rank scores of real estate listings. The search rank algorithm balanced buyers' and sellers' concerns with the monetization needs of the business. This involved modeling click-response and listing quality, formulating lead demand/generation, defining metrics, A/B testing etc.
 - **Click-Through Rate Prediction:** Used regression for predicting the click-through rates of search results.
 - **99acres Search:** Implemented 99acres' search flow to allow free text queries. Developed using Apache Solr, Named Entity Recognition, and spell-checker techniques.

Oracle Corporation

Hyderabad, India

APPLICATIONS ENGINEER

Mar. 2012 - May. 2013

- Developer in Oracle Fusion Product Information Management (PIM) Team.
- Worked in agile teams and followed Test Driven Development. Implemented various features in the Product Change Management work-flow.
- Technologies used include Java, ADF, Linux, SQL, WebLogic, Junit.

Computer Sciences Corporation

Noida, India

SOFTWARE ENGINEER

Sep. 2010 - Mar. 2013

- Worked as a full stack Java developer in projects for insurance organizations including American Family Insurance, and New York Life Insurance.
- Technologies used include Java, Struts, Spring, Java Script, CSS, HTML.

SafeNet (Gemalto)

DEVELOPMENT INTERN

Noida, India

Jan. 2010 - Jun. 2010

- Intern In SoftRemote team. SoftRemote is a VPN Security & Authentication client.
- Technologies used: C++ , IPv4/IPv6Socket Programming, Monitoring utilities like Wireshark, tcpview etc.

Skills

Fields	Machine Learning, Deep Learning, Data Mining, Information Retrieval, Data Analysis, Web Development.
Frameworks	TensorFlow, Keras, Apache Spark, Apache Hadoop, Apache Solr, MongoDB.
Programming Languages	Java, Python, R, Scala.
Languages	English: Fluent in Reading, Writing, & Speaking. IELTS Academic Band 8. Hindi: Native Proficiency.

Certifications

Professional Education Certification in Machine Learning from Georgia Institute of Technology.	2014
Data Analysis: MOOC by Johns Hopkins University(via Coursera).	2013
Machine Learning: MOOC by Stanford University (via Coursera).	2013
M102: MongoDB for DBAs by MongoDB University.	2013
Sun Certified Java Programmer by Sun Microsystems.	2010

Honors & Awards

- 2015-17 **EIT Digital Excellence Scholarship**, Full Tuition Fee Waiver.
- 2009 **Certificate of Merit**, For second position in Java Programming Competition at USIT, GGS Indraprastha University.
- 2005-06 **Certificate of Merit**, Awarded by PGDAV College, Delhi University for standing second in college in first year examination.