

# Akash Singh

DATA SCIENCE · MACHINE LEARNING

Kista, Stockholm County, 16447, Sweden

☎ (+46) 706958463 | ✉ akashs@kth.se | 🏠 akash13singh.me | 📱 akash13singh | 🌐 akash13singh

## Education

---

### KTH Royal Institute of Technology

Stockholm, Sweden

MS IN DATA SCIENCE

August 2016 - Present

- Second year of Dual Degree Master Program. Ongoing.
- Selected Courses: Data Intensive Computing, Deep Learning, Data Mining, Scientific Writing, Thesis Project.

### Eindhoven University of Technology

Eindhoven, Netherlands

MS IN DATA SCIENCE

August 2015 - June 2016

- First year of Dual Degree Master Program. Grade 8.2/10.
- Majoring in Data Science. Minor in Entrepreneurship & Innovation.
- Selected Courses: Statistical Learning Theory, Machine Learning, Information Retrieval, Applied Statistics, Advanced Algorithms, Process Mining, Technology Entrepreneurship, Internet of Things.

### GGG 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 temporal data.
- Developing algorithms using deep learning (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 on are:
  - **Search Rank Framework:** Built a Java 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. The project resulted in a 15% increase in revenues from the search feature.
  - **Click-Through Rate Prediction:** Used linear regression for predicting the click-through rates of search listings. This was used as an input to the search ranking algorithm.
  - **99acres Search:** Implemented 99acres' search flow to allow free text queries. Developed using Apache Solr, named entity recognition, and spell-check techniques.
  - **Spam Filter:** Built a spam filter using naive bayes classifier to highlight spam listings. This project helped the content team to deal with listings having objectionable content.

### Oracle Corporation

Hyderabad, India

APPLICATIONS ENGINEER

Mar. 2012 - May 2013

- Developer in Oracle Fusion Product Information Management (PIM) Team. Oracle Fusion Middleware is Oracle's cloud based suite of enterprise solutions.
- 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)

Noida, India

DEVELOPMENT INTERN

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

---

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

## Certifications

---

Functional Programming Principles in Scala: MOOC by École Polytechnique Fédérale de Lausanne.	2016
Professional Education Certification in Machine Learning from Georgia Institute of Technology.	2014
Data Analysis: MOOC by Johns Hopkins University.	2013
Machine Learning: MOOC by Stanford University.	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.

## Interests

---

- Movies, Literature, Cooking.
- Football, Running, Rowing.