

Sanchit Alekh

Graduate Student of Computer Science, RWTH Aachen University

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Education

- **RWTH Aachen University** Aachen, Germany
• *M.Sc. - Software Systems Engineering (Pursuing)* 2016 - 2018
 - GPA: 1,4 (*Sehr gut/Very Good*) on the German Academic Grading Scale
 - Focus Area: Data and Information Management
- **Indian Institute of Information Technology** Allahabad, India
• *B.Tech (Honours) - Information Technology* 2012 - 2016
 - GPA: 9.09/10.0
 - Received a *Merit Incentive Scholarship* from Government of India
 - Pursued Bachelor Thesis on the topic *Author Disambiguation for Medical Patents* at RWTH Aachen University, Germany
- **Delhi Public School** Patna, India
• *Higher Secondary Schooling (Abitur), Score: 93.6 %* 2010 - 2012

Skills

- **Development:** Java, Python, C++, MATLAB, L^AT_EX
- **Numerical Analysis and Computer Science:** Experience with machine learning and data/text mining algorithms, optimization techniques, linear algebra, probabilistic bayesian algorithms, computer vision algorithms, privacy threat modeling of software systems, ontology engineering and linked data
- **Technology:** Numerical Libraries, Theano, Web Frameworks, Databases (SQL and NoSQL), Linux, Git, Vim, DICOM, Health Level 7(HL7), SNOMED CT, EUROPE PMC

Research and Work Experience

- **Audi AG** Heilbronn, Germany
• *Data Scientist Intern* Jan 2018 - current
 - **Work Summary:** Currently working at the TechHub: Data Driven Production group, which aims to leverage big data technologies to make production more automated and efficient
 - **Areas Spanned:** Data Lake, Semi-structured Databases, Data Mining, Big Data
- **Informatik 5, RWTH Aachen University** Aachen, Germany
• *Student Assistant* Jan 2016 - Jan 2018
 - **Work Summary:** Worked under PD Dr. Christoph Quix as a part of the mi-Mappa project (dbis.rwth-aachen.de/cms/projects/mi-mappa), which aimed to identify suitable actors for complex innovation in medical science. Bachelor Thesis was also a part of this project.

- **Areas Spanned:** Medical Text Analysis, Information Extraction, Text Mining, High-Performance Computing

- **Knowledge Mining and Assessment Group, TU Darmstadt** Darmstadt, Germany
Student Assistant May 2015 - Jul 2015
 - **Work Summary:** Under Prof. Dr. Ulf Brefeld, worked on computing a confidence measure on reliability of data on crowd-sourced encyclopedia and commercial encyclopediae
 - **Areas Spanned:** Python, MySQL, Information Extraction, Text Mining, Conditional Random Fields, Wikipedia API
- **Centre for Development of Advanced Computing** Pune, India
Project Trainee Dec 2014 - Jan 2015
 - **Work Summary:** Built an anonymizer service for Medical Imaging standards DICOM and HL7 to conform to HIPAA standards using C-DAC's Medical Standards Toolkit.
 - **Areas Spanned:** Java, DICOM, HL7, DIMSE services, HIPAA
- **University of Wisconsin** Milwaukee, USA
Research Intern May 2014 - Jul 2014
 - **Work Summary:** Under Prof. Hemant K. Jain, analyzed and optimized current algorithms for anonymizing personal information in Medical Health Data. Focused on Mu-Argus for structured and MIST for unstructured data. Work available on deidproject.tumblr.com
 - **Areas Spanned:** Java, HIPAA, Text Mining

Selected Publications

1. **An Integrated Ontology-based Approach for Patent Classification in Medical Engineering**
12th International Conference on Data Integration in Life Science, November 2017, Luxembourg.
2. **Ontology Matching for Patent Classification**
The Twelfth International Workshop on Ontology Matching, October 2017, Vienna, Austria.
3. **Combining Keystroke Dynamics and Face Recognition for User Verification**
8th IEEE International Conference on Computational Science and Engineering, October 2015, Porto, Portugal.
4. **Ontology-based classification and Analysis of Smart-City Events**
International Conference on Computational Techniques in Information and Communication Technologies, March 2016, New Delhi, India.

Standardized Test Scores

1. **Graduate Record Exam (GRE)** Quantitative: 170/170, Verbal: 159/170, AWA: 5/6
2. **TOEFL** 118/120
3. **DSM - Sprachenzentrum RWTH Aachen** Grade: 2,0 ¹

¹CV updated on 20. January 2018