Sanchit Alekh

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Graduate Student of Computer Science, RWTH Aachen University Webpage: salekh.github.io/about

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Education

RWTH Aachen University

Aachen, Germany

MSc. Software Systems Engineering (Pursuing)

2016 - 2018

Indian Institute of Information Technology

Allahabad, India

B. Tech (Honours) - Information Technology, GPA: 9.08/10.0

2012 - 2016

- 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, Score: 93.6 %

2010 - 2012

Skills

- Development: Java (Preferred), Python, C, MATLAB, LATEX
- Numerical Analysis and Computer Science: Machine Learning, Data Mining, Text Mining, Optimization Techniques, Linear Algebra, Probabilistic Bayesian Algorithms, Computer Vision, Privacy Threat Modeling of Software Systems, Ontology Engineering, Linked Data
- **Technology:** Numerical Libraries, Web Frameworks, Databases, Linux, Git, Vim, DICOM, Health Level 7(HL7), SNOMED CT, EUROPE PMC
- Diverse background in Software Engineering, Math, Computer Science, Physics and Economics allows me to think on a problem analytically across a wide technical scope and start contributing in a group immediately

Research and Work Experience

Informatik 5, RWTH Aachen University

Aachen, Germany

Jan 2016 - current

Student Assistant

- Work Summary: Working under PD Dr. Christoph Quix as a part of the mi-Mappa project (dbis.rwth-aachen.de/cms/projects/mi-mappa), which aims to identify suitable actors for complex innovation in medical science. My Bachelor Thesis was also a part of this project, and it is titled Author Disambiquation for Medical Patents.
- Areas Spanned: Medical Text Analysis, Information Extraction, Text Mining, High-Performance Computing
- Knowledge Mining and Assessment Group, TU Darmstadt

 Student Assistant

Darmstadt, Germany 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 like www.wikipedia.com and commercial encyclopedia like www.britannica.com.
- 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

Publications

- 1. Combining Keystroke Dynamics and Face Recognition for User Verification 8th IEEE International Conference on Computational Science and Engineering, October 2015, Porto, Portugal. Paper can be accessed here: http://goo.gl/hVHTCi
- 2. Ontology-based classification and Analysis of Smart-City Events
 International Conference on Computational Techniques in Information and Communication
 Technologies, March 2016, New Delhi, India. Paper can be accessed here: https://goo.gl/L05apc

Other Projects

• Neural Network Architecture for Incremental Learning Compared various Incremental Learning architectures, namely ARTMAP and Learn++. Also tested them against MLP-Backpropagation and weighed the advantages and disadvantages of the incremental learning algorithms

Standardized Test Scores

- 1. Graduate Record Exam (GRE) Quantitative: 170/170, Verbal: 159/170, AWA: 5/6
- 2. **TOEFL** 118/120