# Rahul R Huilgol

http://rahuloo3.github.io

Prefinal Year Undergraduate Student Department of Computer Science and Engineering Indian Institute of Technology Guwahati, India

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# Ed

Guide

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Education	1	
Institute Degree CPI SPI	Indian Institute of Technology Guwahati Bachelor of Technology, Computer Science and Engineering 8.45 (after 4 semesters) on a scale of 10 Most Recent – 8.62	Guwahati, India 2011 – Present
Institute Score	Sri Chaitanya Junior Kalasala [Board: BIE-AP] 96.1%	Hyderabad, India 2009 – 2011
Institute Score	Sanghamitra School [Board: CBSE] 94.4%	Hyderabad, India – 2009
Projects	Link to Projects on my Website	
Title Guide Nature Details	Machine Learning using CCA on Network Traffic Data Status: Ongoing Dr. Vijaya Saradhi, IIT Guwahati Summer Research Project By representing network traffic data in different ways and maximizing correlation between these representations (using Canonical Correlation Analysis), we are trying to establish relationships between various features of the data.	
Title Details	Tweet Categorization Independent Project  Developed a system to classify tweets into categories using the principles of a binary  Bayesian Classifier. This when used for the contest Twitminer (organized by IISc Bangalore) gave an accuracy of over 90% and was ranked 26th in India.	
Title Details	Handwritten Digit Recognizer Indep  Developed a system to recognize handwritten digits using knn-algorithms.	pendent Project orithm.
Title Details	Movie reviews using Sentiment Analysis Independent Project Currently working on a system, using NLP and ML techniques, to mine the sentiment of tweets on a newly released movie and analyze whether there is a positive or negative buzz on the movie.	
Title Guide Details	Enhancing the kernel of Pintos Dr. Sajith Gopalan, <i>IIT Guwahati</i> Augmenting the basic PintOS kernel (developed at Stanford) by adding various advanced OS constructs like Process Synchronisation primitives, schemes to run programs in user and kernel mode, file system management and virtual memory with demand paging etc.	
Title Guide Details	SyncBox - A file hosting and file synchronization service Dr. Pradip .K. Das, <i>IIT Guwahati</i> Led a group of 19 to develop a feature-rich file hosting service which supports automatic 2 way synchronization of files across various computers (Linux) similar to Dropbox. It involved use of Django framework(Python), SSH and few linux utilities.	
Title	2 Pass Assembler Linker Loader for 8085	Python

Developed a 2 pass 8085 assembler, linker and loader. It supports various new in-**Details** structions (not in 8085 instruction set), looping capability and macros, which are converted to the 8085 assembly language accepted by GNUSim8085. It also detects various kinds of errors in syntax and semantics.

Dr. Santosh Biswas, IIT Guwahati

Title A Human v/s Computer Game

Guide Dr. Saswata Shannigrahi, IIT Guwahati

Details Developed a fully functional (difficult to beat) implementation of the ancient board

game Kalaha. This gave me insights into basic Artificial Intelligence (Specifically,

Minimax and Alpha-Beta pruning).

More details and more projects can be seen on my Website

## **Technical Skills**

**Programming Languages** C, C++, Java, Python, UNIX Shell Scripting

Web DevelopmentHTML, CSS, Javascript, PHPOperating SystemsLinux, Microsoft Windows

**Tools & IDE** Visual Studio, Eclipse, Microsoft Office, LaTeX

Frameworks/Libraries Twitter Bootstrap, Scikit-learn, Weka

#### **Research Interests**

Machine Learning Natural Language Processing Information Retrieval

Operating Systems Distributed Systems

# **Major Academic Achievements**

• 1132 (top 0.2 %) in IIT-JEE 2011 among half million participants across India

- Secured an All India Rank of 2432 (in the top 0.2%) among 1 million participants in AIEEE 2011
- Stood 73 in KCET 2011 and 310 in EAMCET 2011, Engineering Stream

• Secured **3 National Merit Certificates** in **Science**, **Maths & English** from the CBSE for being in the top 0.1% performers among more than 630,000 students in CBSE 2009 Board Exams

#### **Courses**

Courses in italics will have finished by April 2014

Java

**Theoretical**: Discrete Math, Data Structures, Algorithms, Formal languages and automata theory, *Theory of Computation* 

**Systems**: Digital Design, Computer Organization and Architecture, *Operating Systems*, *Compilers* **Math**: Linear Algebra, Real and Complex Analysis, Mutivariable Calculus, *Probability, Optimization* **Others**: Software Engineering, *Data Communication*, *Networks*,

**Online:** Learning from Data (Caltech), Machine Learning (Stanford), Web Intelligence & Big Data(IITD)

**Labs:** *Peripherals, Databases, Compilers, Networks*, System Software, Software Engineering, Systems Programming, Hardware

# **Positions of Responsibility and Extra Curricular Activities**

- Batch Representative of CSE 2015 Batch
- Student Representative (Third Year) in Department Undergraduate Planning Committee
- Literary Secretary of Dihing Hostel, IIT Guwahati for the year 2012 2013
- Head Boy of Sanghamitra School during the academic year 2008 2009
- Core Team Member and Event Organizer of IITG Entrepreneurial Summit 2013
- Enthusiastic participant in hackathons, workshops, lectures and coding contests conducted by Coding Club and Google Developers Group, IIT Guwahati
- · Hobbies include reading books, photography

## References

- Dr. Vijaya Saradhi, Assistant Professor, Dept. of CSE, IIT Guwahati
- Dr. Pradip K Das, Associate Professor, Dept. of CSE, IIT Guwahati