

# RAHUL R HUILGOL

<http://rahul003.github.io>

**DoB:** 3rd October 1993

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## EDUCATION

INSTITUTE	<b>Indian Institute of Technology Guwahati</b>	Guwahati, India
DEGREE	Bachelor of Technology, <b>Computer Science and Engineering</b>	2011 – Present
CPI	<b>8.45</b> (after 4 semesters) on a scale of 10	
SPI	Most Recent – <b>8.62</b>	
INSTITUTE	Sri Chaitanya Junior Kalasala [Board: <b>BIE-AP</b> ]	Hyderabad, India
PERCENTAGE	<b>96.1%</b>	2009 – 2011
INSTITUTE	Sanghamitra School [Board: <b>CBSE</b> ]	Hyderabad, India
PERCENTAGE	<b>94.4%</b>	– 2009

## MAJOR PROJECTS

[LINK TO PROJECTS ON MY WEBSITE](#)

TITLE	<b>Machine Learning using CCA on Network Traffic Data</b>	Status: Ongoing
GUIDE	Dr. Vijaya Saradhi, <i>IIT Guwahati</i>	
NATURE	Summer Research Project	
DETAILS	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. Ultimately we hope to use these relationships to establish patterns in the data.	
TITLE	<b>A Human v/s Computer Game</b>	Java
GUIDE	Dr. Saswata Shannigrahi, <i>IIT Guwahati</i>	
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).	
TITLE	<b>2 Pass Assembler Linker Loader for 8085</b>	Python
GUIDE	Dr. Santosh Biswas, <i>IIT Guwahati</i>	
DETAILS	Developed a 2 pass 8085 assembler, linker and loader. It supports various new instructions (not in 8085 instruction set), looping capability and macros, which are converted to the 8085 assembly language accepted by <a href="#">GNU Sim8085</a> . It also detects various kinds of errors in syntax and semantics.	
Title	<b>SyncBox - A file hosting and file synchronization service</b>	
Guide	Dr. P.K. Das, <i>IIT Guwahati</i>	
Details	Led a group of 19 to develop a file hosting service which supports automatic 2 way synchronization of files across various computers (Linux) similar to <a href="#">Dropbox</a> . It also supports features like a fully featured web based file browser, sharing of files uploaded (via email or private messaging on the website) and groups. It involved use of Django framework(Python), SSH and few linux utilities.	
TITLE	<b>A Virtual Bread Board Simulator</b>	Java
GUIDES	Dr. Santosh Biswas & Dr. Arijit Sur, <i>IIT Guwahati</i>	
DETAILS	Developed a GUI for a Breadboard Simulator proposed to be used for remote simulation. <b>Features</b> include: Drag and Drop GUI, Error warnings and Resolution, Converting the circuit into a Matrix Representation for further processing	

## OTHER PROJECTS

[LINK TO PROJECTS ON MY WEBSITE](#)

- Machine Learning** Developed a **Bayesian Classifier** which when implemented in the contest Twitminer (organised by IISc Bangalore) gave an accuracy of 90% and was ranked 26th

## TECHNICAL SKILLS

<b>Programming Languages</b>	C, C++, Java, Visual Basic .NET, Python
<b>Web Development</b>	PHP, MySQL, HTML, CSS, Javascript
<b>Operating Systems</b>	Linux, Microsoft Windows
<b>Tools &amp; IDE</b>	Visual Studio, Eclipse, Microsoft Office, L <sup>A</sup> T <sub>E</sub> X
<b>Frameworks</b>	Django, Twitter Bootstrap
<b>Version Control</b>	Git

## RESEARCH INTERESTS

Machine Learning	Natural Language Processing	Sentiment mining
Web Intelligence	Cryptography	

## MAJOR ACADEMIC ACHIEVEMENTS

- Secured an All India Rank of **1132** (in the top **0.2%**) out of 4,90,000 participants in **IIT-JEE** 2011
- Secured an All India Rank of **2432** (in the top **0.2%**) out of 10,60,000 participants in **AIEEE** 2011
- Stood **73** in **KCET** 2011 and **310** in **EAMCET** 2011, Engineering Stream
- Received **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

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

**Systems:** Digital Design, Computer Organization and Architecture, *Operating Systems, Compilers*

**Others:** Software Engineering, *Optimization, Data Communication, Networks*

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

*Courses in italics will have finished by April 2014*

## POSITIONS OF RESPONSIBILITY

- **Batch Representative** of CSE 2015 Batch 2013 – 2014
- **Student Representative** (3rd Year) in Department Undergraduate Planning Committee 2013 – 2014
- **Literary Secretary** of Dihing Hostel, IIT Guwahati for the year 2012 – 2013
- **Head Boy** of Sanghamitra School during the academic year 2008 – 2009

## EXTRA CURRICULAR ACTIVITIES

- Member of **SIGACT** (Special Interest Group in Algorithms and Computation Theory), IIT Guwahati
- Enthusiastic participant in hackathons, workshops, lectures and coding contests conducted by Coding Club and Google Developers Group, IIT Guwahati
- Member of the Literary Society and Publication Sub Committee, IIT Guwahati
- Regularly participated in various inter-school quizzing and literary competitions
- Core Team Member and Event Organizer of IITG Entrepreneurial Summit 2013