

RAHUL R HUILGOL

<http://rahul003.github.io>

DoB: 3rd October 1993

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EDUCATION

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

PROJECTS

[LINK TO PROJECTS ON MY WEBSITE](#)

TITLE	Machine Learning using CCA on Network Traffic Data	<i>Status: Ongoing</i>
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.	
TITLE	Tweet Categorization	<i>Independent Project</i>
DETAILS	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	Handwritten Digit Recognizer	<i>Independent Project</i>
DETAILS	Developed a system to recognize handwritten digits using knn-algorithm. Used data from Kaggle.com for training and to evaluate performance.	
TITLE	Movie reviews using Sentiment Analysis of Tweets	<i>Independent Project</i>
DETAILS	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	Enhancing the kernel of Pintos	
GUIDE	Dr. Sajith Gopalan, <i>IIT Guwahati</i>	
DETAILS	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	2 Pass Assembler Linker Loader for 8085	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 GNUSim8085. It also detects various kinds of errors in syntax and semantics.	
TITLE	SyncBox - A file hosting and file synchronization service	
GUIDE	Dr. P.K. Das, <i>IIT Guwahati</i>	
DETAILS	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	A Human v/s Computer Game	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).	

More details, source code and more projects can be seen on my **Website**

TECHNICAL SKILLS

Programming Languages	C, C++, Java, Python, UNIX Shell Scripting
Web Development	HTML, CSS, Javascript, PHP
Operating Systems	Linux, Microsoft Windows
Tools & IDE	Visual Studio, Eclipse, Microsoft Office, LaTeX
Frameworks/Libraries	Twitter Bootstrap, Scikit-learn, Weka

RESEARCH INTERESTS

Machine Learning Operating Systems	Natural Language Processing	Information Retrieval
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HONORS

- 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

COURSES IN ITALICS WILL HAVE FINISHED BY APRIL 2014

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,*

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