RAHUL R HUILGOL

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EDUCATION

Degree CPI	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	Sanghamitra School [Board: CBSE]	Hyderabad, India

PROJECTS LINK TO PROJECTS ON MY WEBSITE

TITLE Machine Learning using CCA on Network Traffic Data Status: Ongoing

Guide Dr. Vijaya Saradhi, IIT Guwahati

Nature Summer Research Project

Score **94.4**%

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

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to use these relationships to establish patterns in the data.

TITLE Tweet Categorization Independent Project

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 Ban-

galore) gave an accuracy of over 90% and was ranked 26th in India.

Title Handwritten Digit Recognizer Independent Project

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 Independent Project

Details
Currently working on a system 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, IIT Guwahati

Details Augmenting the basic PintOS kernel (developed at Stanford, USA) 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, IIT Guwahati

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 constituted and the constitution of the constitution of

verted to the 8085 assembly language accepted by GNUSim8085. It also detects vari-

ous kinds of errors in syntax and semantics.

SyncBox - A file hosting and file synchronization service

Guide Dr. P.K. Das, IIT Guwahati

DETAILS Led a group of 19 to develop a feature-rich file hosting service which supports au-

> tomatic 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, IIT Guwahati

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

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, Visual Basic .NET, UNIX Shell Scripting

Basic: Python, Assembly Language Programming(gas)

Web Development PHP, MySQL, HTML, CSS, Javascript **Operating Systems** Linux(Ubuntu), Microsoft Windows

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

Frameworks Twitter Bootstrap

RESEARCH INTERESTS

Machine Learning **Operating Systems** Natural Language Processing

Information Retrieval

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

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
- Regularly participated in various inter-school quizzing and literary competitions