

**RAHUL GHOSH**

B.TECH - Electronics and Electrical Engineering  
Department of Electronics and Electrical Engineering  
Indian Institute of Technology Guwahati

08420784442  
rahul.ghosh@iitg.ernet.in  
rahulghosh2021@gmail.com

Degree	Institute	CGPA	Year
B.Tech	Indian Institute of Technology Guwahati	7.78	2012-2016
Senior Secondary	The Army Public School, Pune	92.6	March, 2011
Secondary	The Army Public School, Pune	93.8	March, 2009

---

**EXPERIENCES**

---

**PROJECT TRAINEE, INSTITUTE OF DEVELOPMENT AND RESEARCH IN BANKING TECHNOLOGY (ESTD. BY RBI)** MAY'15 – JULY'15

*Dr. Vadlamani Ravi, Head of Center of Excellence in CRM and Analytics*

Worked as a research intern on the following projects:

- Quantum-Inspired Differential Evolution based Wrapper for Feature Subset Selection  
Design and development of a Quantum-Inspired Differential Evolution optimization algorithm and using it obtain an optimal feature subset of a given dataset on which the learning algorithm can focus and neglect the irrelevant features for smaller run time.
- Classification of Customer Reviews using Deep Learning  
Retrieval of customer reviews from Amazon website and their classification using a combination of Restricted Boltzmann Machine (RBM) and Probabilistic Neural Network (PNN) and comparing its result with other classification techniques.

---

**PROJECTS**

---

**GLAND SEGMENTATION AND CLASSIFICATION USING DEEP LEARNING, BACHELOR THESIS PROJECT** AUG'15 – APR,16

*Dr. Amit Sethi*

- Classification of benign vs grade 3, 4, 5 prostate cancer from images of segmented glands using Restricted Boltzmann Machines and Convolutional Neural Networks using Theano

**MACHINE LEARNING COURSE PROJECTS** OCT'14 – APR'15

*Dr. Suresh Sundaram*

- Designed projects such as Handwritten Digit Recognition, E-mail Classifier and Face Recognition using techniques such as Neural Networks, Support Vector Machines, Principal Component Analysis, K-means Clustering, and Logistic Regression etc.

**WALL CLIMBING ROBOT** JAN'15 – APR'15

*Dr. Prithwijit Guha*

- Development of a wall climbing robot with payload capable of climbing any rugged terrain.

**CARD PREDICTOR** OCT'13

*Dr. Amit Sethi*

- Simulation of a card trick using 8085 Microprocessor and digital electronic components.

---

**PUBLICATIONS**

---

- "Elitist Quantum-Inspired Differential Evolution based Wrapper for Feature Subset Selection", V. Srikrishna, **Rahul Ghosh**, V. Ravi and Kalyanmoy Deb, 9th Multi-Disciplinary International Workshop on Artificial Intelligence 2015, Lecture Notes in Artificial Intelligence 9426, 113-124, 2015.
- "A novel deep learning architecture for sentiment classification", **Rahul Ghosh**, Kumar Ravi and V. Ravi, 3rd IEEE International Conference on Recent Advances in Information Technology 2016(accepted).

---

### TECHNICAL PROFICIENCY

---

- Programming Languages : C , C++, R, Python, 8051 & 8085 assembly programming
  - Operating Systems : Linux (Ubuntu), Windows, Mac OS
  - Software Packages : Neuroshell 2.0, MATLAB, Latex, Multisim, LT Spice
  - Microcontroller kits : Arduino Uno
- 

### ACHIEVEMENTS

---

- Secured 99.6 percentile and 99.87 percentile in IIT-JEE 2012 and All India Engineering Entrance Exam 2012 respectively
  - All India Rank of 534 in the ISAT 2012, for admission in Indian Institute of Space Science and Technology.
  - All India Rank 6 in IMMO 2011.
  - Special Prize for securing highest marks in Maths and above 90% marks in senior secondary examination.
- 

### RELEVANT COURSES

---

- |  |   |
|--|---|
| • Introduction to Computing **               | • Digital Image Processing  |
| • Algorithms and Data Structure              | • Digital Signal Processing   |
| • Parallel Computing                         | • Data Scientist Toolbox and R Programming - (Coursera)                                 |
| • Pattern Recognition and Machine Learning   | • Digital Circuits and Microprocessors**  |
| • Embedded Systems and Computer Architecture | • Mathematics (Linear Algebra, Real Analysis, Multivariable Calculus, Complex Analysis) |
| • Probability and Random Processes           |   |
- 

*\*\*both theory and laboratory course*

---

### POSITIONS OF RESPONSIBILITY

---

#### PLACEMENT CELL, IIT GUWAHATI

DEC'14

Worked as student volunteer and conducted the placement season of IIT Guwahati for the year of 2014.

---

### EXTRA CURRICULARS

---

- Won silver medal in Freestyle swimming organized by Rashtriya Life Saving Society (India).
  - Winners of Football Premier League (FPL'14), IIT Guwahati.
  - Represented hostel Siang in Football in Spardha'13 and won silver medal in Football in Spardha'14, 15 and 16, the annual Intra-college sports festival of IIT Guwahati.
  - Selected for Football under NSO (National Sports Organization) from IIT Guwahati.
- 

### OTHERS

---

#### EXAM COORDINATOR, TECHNETHLON (TECHNICHE)

JUL'12

Conducted Technethlon (international school championship) in Pune, Maharashtra which saw a huge participation.

---

*(References available on request)*

---