

Biswajit Paria

UG (3rd year), Computer Science and Engineering
Indian Institute of Technology Kharagpur

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Education

Indian Institute of Technology Kharagpur

B.Tech M.Tech Dual Degree (5 year program)

Undergraduate 3rd year

Current CGPA (Semester 5) : **9.74/10.00**

Kharagpur, India

2012 - 2017 (expected)

Kendriya Vidyalaya No. 1, IIT Kharagpur

All India Senior School Certificate Examination (CBSE Board)

Aggregate Score: 92.4%

Kharagpur, India

2012

Kendriya Vidyalaya No. 1, IIT Kharagpur

All India Secondary School Examination (CBSE Board)

CGPA: 9.8/10.0

Kharagpur, India

2010

Relevant Courses Taken

Programming and Data Structures

Introduction to Electronics

Formal Languages and Automata Theory

Computer Organization and Architecture[#]

Computer Organization Laboratory[#]

Algorithms-I

Signals and Systems

Software Engineering

Compilers[#]

Compilers Laboratory[#]

Discrete Mathematics

Switching Circuits and Logic Design

Probability and Statistics

Algorithms-II[#]

Matrix Algebra[#]

[#]To be completed before Dec 2014

Projects and Papers

A Faceted Recommendation System for Scientific Articles (FeRoSA)

Guides: Prof. Animesh Mukherjee, Prof. Pawan Goyal

Dec 2013-Mar 2014

- Developed a Paper Recommendation system based on citation relations and context.
- Generated citation tags using a Maximum Entropy Classifier on a set of selected features mainly consisting of linguistic features.
- Extracted topics from the paper texts using an LDA utility.
- Citation tags were used along with LDA output to generate citation recommendations.
- Created a GUI for the system.

Segmented message broadcast in delay tolerant networks: An analytical and numerical study

Guides: Prof. Animesh Mukherjee, Prof. Niloy Ganguly

May 2013

- Developed and simulated different Broadcasting strategies on different Network Topologies and measured relevant parameters.
- Verified asymptotic expressions for expected delays.
- Computed parameters for optimal Broadcasting.

On Farey Table and its Compression for Space Optimization with Guaranteed Error Bounds

Guide: Prof. Partha Bhowmick

May 2012

- Studied Number-Theoretic properties of Farey Sequences.
- Developed and implemented compression techniques for the Farey table.
- Developed mathematical expressions for maximum and average error in compression.
- Developed mathematical expressions for the number of columns in the compressed table.

Achievements and Scholarships

Overnite-2014 Programming Competition (ACM Certified) My team BitBees secured the 3rd rank in the onsite finals.	2014
International Online Programming Contest (IOPC), Techkriti- IIT Kanpur My team BitBees secured the 25th rank among a 1000 international teams.	2014
Sudocode, Kshitij- IIT Kharagpur My team BitBees secured the 1st rank . Event consisted of three problems based on Algorithms, Image Processing and NLP.	2014
ACM ICPC Regionals Kanpur Site My team BitBees secured the 11th rank in the online prelims and 13th rank in the onsite regionals.	2013
Marauder's Map, Kshitij- IIT Kharagpur Got the freshers' prize and 5th rank overall in Marauder's Map, an AI and Image processing event.	2013
Jagadish Bose National Science Talent Search Scholar Selected among top 30 candidates in the state of West Bengal for the scholarship program.	2013
IIT Joint Entrance Examination (IITJEE) All India Rank- 671 in General category among half a million candidates.	2012
Indian National Physics Olympiad (INPhO) Qualified among top 30 candidates to attend the Physics Orientation cum Selection Camp for the International Physics Olympiad.	2012
Zonal Informatics Olympiad (ZIO) Among top 253 candidates all over India.	2012
Kishore Vaigyanik Protsahan Yojana (KVPY) All India Rank- 7 . Scholarship Program funded by the Department of Science and Technology, India.	2011
Indian National Mathematics Olympiad (INMO) All India Rank- 6 . Selected to attend the International Mathematics Olympiad Training Camp -2010 and 2011.	2010
Kendriya Vidyalaya Sangathan (KVS) Junior Mathematics Olympiad All India Rank- 2 . Held in all KVS schools.	2010
Australian Mathematics Competition (AMC)- Intermediate Division Recieved a Gold Medal along with 23 other medallists in the world.	2009

Programming Skills

Advanced	C, C++, JAVA
Basic	TeX, SQL, BASH, PYTHON, MATHEMATICA

Other Activities

Programming Contests, Math Olympiad Teaching and Math Olympiad Interhall competitions, Drawing, Painting

References

Dr. Animesh Mukherjee Assistant Professor, Dept. of Computer Science and Engineering Indian Institute of Technology Kharagpur	animeshm@cse.iitkgp.ernet.in
Dr. Niloy Ganguly Associate Professor, Dept. of Computer Science and Engineering Indian Institute of Technology Kharagpur	niloy@cse.iitkgp.ernet.in
Dr. Partha Bhowmick Associate Professor, Dept. of Computer Science and Engineering Indian Institute of Technology Kharagpur	pb@cse.iitkgp.ernet.in