

Titas Nandi

Curriculum vitae

ACADEMIC BACKGROUND

Bachelor of Technology *Graduating May, 2017*
Computer Science and Engineering
Indian Institute of Technology, Patna
Current CPI : 9.66 (After 4th Semester)

Intermediate *Graduated March, 2013*
Central Board of Secondary Education
Sunbeam School Bhagwanpur, Varanasi
Percentage : 97.8/100

Matriculation *Graduated March, 2011*
Central Board of Secondary Education
Sunbeam School Bhagwanpur, Varanasi
CGPA : 10/10

ACADEMIC ACCOMPLISHMENTS

Secured All India Rank : **4725** in JEE-Advance among 1.5 Lakh Candidates

Topped the district of **Varanasi** in CBSE 12th Board Examination with a percentage of **97.8**.

Awarded the prestigious **CBSE Merit Certificate** in 3 subjects (**Physics, Mathematics and English**) in 12th Board Examination.

Qualified **National Standard Examination in Chemistry (NSEC)**, 2013 and appeared in **Indian National Chemistry Olympiad (INChO)**

TECHNICAL SKILLS

Programming: C C++ Java Perl Shell
Web Development: Django Javascript HTML CSS MySQL
Other Utilities: Latex Git/GitHub

TOPICS OF INTEREST

Algorithms and Data Structures, Data Science, Web Intelligence and Big Data, Machine Learning Discrete Mathematics Graph Theory

Undertaken Online Courses in
Design and Analysis of Algorithms (Coursera),
Algorithmic Game Theory
Introduction to Data Science (Udacity)
Web Intelligence and Big Data (Coursera)

OTHER SKILLS

Debating Writing Recitation Painting

- Qualified for the Semi-finals (**Top 25 in India**) in **Reliance National Digital Elocution Competition, 2008**
- Won various accolades in Debating

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RESEARCH PROJECTS

May 2015 - July 2015

Matroid Theory

Supervisor: Dr. Rogers Mathew

Assistant Professor, IIT Kharagpur

- Understood **Matroid Theory** and analyzed some **path-breaking results** of the field
- Provided **alternate proofs** to some simple results of the field
- Did a complete survey of the topic and subtopics including **matroid duality, submatroid theory, axiom systems, geometric lattices, matroid polytopes, enumeration and greedy algorithms**
- Understood **Graph Theory concepts** and **Matroid Applications**

ACADEMIC PROJECTS

January 2015 - April 2015

Complain Redressal System

Supervisor: Dr. Samrat Mondal

Assistant Professor, IIT Patna

- Designed and implemented a **Complain Redressal System** for our institute following **Software Engineering concepts**
- Understood and followed all stages of **software development** from requirement analysis to coding, testing and maintenance of software
- Used **Django framework as backend, MySQL as database and Javascript, JSON, HTML, CSS as frontend**
- Prepared all relevant documents including **Software Requirement Specification, design documents and test cases**

March 2015 - April 2015

Design Of 4-bit CPU

Supervisor: Dr. Somanath Tripathy

Assistant Professor, IIT Patna

- Designed and implemented a 4-bit CPU to perform some **basic arithmetic and logic operations**