Sampad Kumar Kar

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Education

Chennai Mathematical Institute
Chennai, India

BACHELOR OF SCIENCE (HONS.) IN MATHEMATICS AND COMPUTER SCIENCE
2019- (Expected) 2022

- **Mathematics** Analysis I, Analysis II, Analysis III, Calculus, Algebra I, Algebra II, Algebra III, Probability Theory, Differential Equations, Complex Analysis, Topology, Stochastic Processes - I
- **Computer Science** Introduction to Programming in Haskell, Advanced Programming in Python, Discrete Mathematics, Design and Analysis of Algorithms, Theory of Computation, Introduction to Cryptography, Programming Language Concepts, Theoretical Foundations of Machine Learning, Structural Graph Theory, Probability Statistics with R
- **CGPA** 8.85 — *Official Transcript*

Indian Institute of Technology
Chennai, India

BACHELOR OF SCIENCE (HONS.) IN DATA SCIENCE
2020- (Expected) 2024

- **Diploma in Programming** Programming and Data Structure with Python
- **Diploma in Data Science** Machine Learning Techniques, Machine Learning Practice, Business Data Management
- **Mathematics** Mathematics for Data Science I, II
- **Computer Science** Computational Thinking I, Programming in Python, Programming and Data Structure with Python
- **Statistics** Statistics for Data Science I, II, Machine Learning Foundations
- **Others** English I, II
- **CGPA** 9.2 — *Official Transcript*

MBS Public School
Bhubaneswar, India

SENIOR SCHOOL CERTIFICATE EXAMINATION
2017-2019

- **Subjects** English (Core), Mathematics, Physics, Chemistry, Physical Education
- **Percentage** 94.2% — *Official Marksheet*

DAV Public School
Bhubaneswar, India

SECONDARY SCHOOL EXAMINATION
2006-2017

- **Subjects** English (Comm), Sanskrit, Mathematics, Science (Physics, Chemistry, Biology), Social Science (History, Civics, Geography, Economics)
- **Other Subjects** Computer Science, Hindi (Second language), Odia (Third language)
- **CGPA** 10.0 — *Official Marksheet*

Experience and Training

Cheenta
Kolkata, India

MATHEMATICS INSTRUCTER
Oct 2019 - ongoing

- Current Facultly at Cheenta Ganit Kendra, have taken courses for Mathematics Olympiads on various topics like Geometry, Number Theory, Algebra etc.
- *Cheenta Team*

Institute of Mathematics and Application, Science and Technology Dept, Govt. of Odisha
Bhubaneswar, India

INMOTC
2 Jan, 2017 and 24 Dec, 2017

- 2017-18: 5 days training camp on Geometry, Number Theory, Functional Analysis and Algebra
- 2017: 4 days training camp on Geometry, Number Theory, Functional Analysis and Algebra

Internships

SRFP
Bengaluru, India

SUMMER RESEARCH FELLOWSHIP PROGRAM
August 2021 - ongoing

- Currently, working under Prof. Piyush Srivastava on the paper — **A Comparison of Regularization Techniques in Deep Neural Networks** — TIFR

Projects

Image Classification with Perceptrons

Feb 2022

• Portfolio link, GitHub link

A Comparison of Regularization Techniques in DNN

Jan 2022

• Reading Project - Report link, Portfolio link

Logistic Regression: Implementation and Visualization from scratch

Feb 2022

• Portfolio link, GitHub link

Achievements

Chennai Mathematical Institute   *Chennai, India*

Shriram Scholarship   *August, 2019*

• Institutional fee waiver and monthly stipend

National Council of Education Research and Training, Govt. of India   *New Delhi, India*

NTSE Scholarship   *September, 2017*

• NTS Monthly Scholarship

National Board for Higher Mathematics, Atomic Energy Dept, Govt. of India   *New Delhi, India*

INMO Merit Certificate   *2017*

• National Merit Certificate

NBHM and IMA, Atomic Energy Dept, Govt. of India   *Bhubaneswar, India*

RMO Qualifier   *2017 and 2018*

• Qualified for INMOTC-2017 and INMOTC-2018

Indian Association of Physics Teachers   *Bhubaneswar, India*

NSEP and NSEA Qualifier   *2018 and 2019*

• Cleared Zonal Round for writing InPhO-2019
• Cleared Zonal Round for writing InAO-2018 and InAO-2019

Other Achievements

Indian Institute of Technology   *Kanpur, India*

JEE Advanced   *2019*

• All India Rank - 4062

NTA, Ministry of Education, Govt. of India   *New Delhi, India*

JEE Mains   *2019*

• All India Rank - 3042

Indian Statistical Institute   *Bangalore, India*

Bachelor of Statistics Entrance Qualifier   *2019*

• Qualified for ISI, Bangalore

Indian Institute of Science   *Bhubaneswar, India*

KVPY Written Qualifier   *2018*

• Cleared for interview round for KVPY-2018

Communication and technical skills

Languages	Odia (mother tongue), English (proficient), Hindi (proficient), French (beginner), Bengali (beginner)
Programming Languages	Python, C++, Java, Haskell, Octave, MATLAB
Webpage development	HTML, CSS
Scripting	LaTeX
Office tools	Word, Excel, Powerpoint, Access