

Personal Information

Date of Birth *December 21st, 1996*
Sex *Male*
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Education

2018 – present **Chennai Mathematical Institute** *Chennai, Tamil Nadu*
M.Sc Data Science
CGPA **9.11/10**
2015 – 2018 **St. Xavier's College (Autonomous)** *kolkata, West Bengal*
B.Sc Statistics (Hons.)
CGPA **8.67/10**
2013 – 2015 **West Bengal Council of Higher Secondary Education**
XII Standard
Percentage **91.4%**
2003 – 2013 **West Bengal Board of Secondary Education**
X Standard
Percentage **92.7%**

Research & Project Experience

October 2019 – present **Supervisor : Prof. Julien BECT & Prof. Emmanuel VAZQUEZ**
Laboratoire des signaux et systemés (L2S), Remote internship
- **Topic :** Numerical aspects of hyperparameter estimation using MLE in Gaussian Process Regression
- **Role :** The scope of this article is to explore different numerical issues arising out of such optimization techniques when performed across different software packages.

16 – 20 December 2019 **Indian Institute of Science Education and Research, IISER – Pune**
Indo-French Centre for Applied Mathematics (IFCAM), Winter school
- **Topic :** Graphs and Random Process.
- **Role :** Attended mini courses on Branching random walks, Galton-Watson trees and random networks.

May – July 2019 **Laboratoire des signaux et systemés(L2S), Summer internship**
École CentraleSupélec, Université Paris- Saclay – Gif-sur-Yvette, France
Supervisor : Prof. Emmanuel VAZQUEZ
- **Topic :** Reviewing scalability of Python toolboxes implementing Gaussian Process Regression.
- **Role :** Built a universal wrapper for Python toolboxes implementing Gaussian Process regression, to perform comparative performance tests using simulated test beds and reviewed the toolboxes over different features, for future developement.

- 3 – 14 December 2018 **Indian Institute of Science Education and Research, IISER – Kolkata**
Indo-French Centre for Applied Mathematics (**IFCAM**), *Winter school*
- **Topic** : Stochastic Methods for uncertainty quantification and sensitivity analysis of complex models.
 - **Role** : Learnt implementation of Sobol indices in sensitivity analysis and the Kriging approach of metamodeling in Geo-statistical domain using R .
- January – July 2018 **St. Xavier's College (Autonomous), Kolkata.**
Undergraduate Dissertation.
Supervisor : Prof. Debjit SENGUPTA
- **Topic** : Time Series analysis of Gold price using R.
 - **Role** : The aim was to develop a predictive model to forecast the average monthly gold price, using *Autoregressive process* model fitting and backtesting with R and MINITAB.

Selected Coursework

Statistics	Probability Theory I-III, Sampling theory, Statistical Inference I-III, Non-parametric Statistical Inference, Multivariate Analysis, Linear Statistical Models, Statistical Quality Control, Econometrics, Time Series Analysis
Mathematics	Real analysis, Numerical Linear algebra, Algebra I-II, Calculus I-II (single and multivariate), Combinatorics.
Data Science	Data mining & Machine Learning, Regression & Predictive analysis, Distributed Computing for Big Data, Reinforcement Learning, Design & Analysis of Algorithms, Advanced Machine Learning (DL), Information retrieval, Text Analytics

Technical & Programming Skills

OS	Proficient in Linux and Windows operating systems
Programming	Python, C++
Softwares	R, MINITAB, MS-Office, Apache Hadoop, Hive, Spark
Other competencies	SQL, Gitlab, \LaTeX, Google Cloud Platform

Achievements

- 2019 Qualified as team from *CMI* in **Credit-Suisse Top Quant hackathon - 2019**
- 2018 Secured **All India Rank 12** in admission test for Master of Quality Management Science (MS-QMS) program conducted by Indian Statistical Institute (ISI)
- 2018 Secured **All India Rank 75** in Joint Admission test for Master (JAM 2018) in Mathematical Statistics (MS) paper conducted by Indian Institute of Technology Bombay (IIT-B)

References

Dr. Sourish DAS

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Dr. Madhavan MUKUND

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Chennai Mathematical Institute
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Dr. Emmanuel VAZQUEZ

Associate professor
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