

# Priyanshi Chandra

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## EDUCATION

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**Università della Svizzera italiana, Switzerland**

*April 2025 – present*

PhD Student, Faculty of Informatics

**Supervised by:** Prof. Déborah Sulem, Prof. Antonietta Mira

**Sardar Vallabhbhai National Institute of Technology, Surat**

*July 2019 – July 2024*

Integrated M.Sc., Mathematics

CGPA : 9.63/10, Rank: 1/54

## EXPERIENCE

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1. Research assistant at **Indian Institute of Management, Udaipur** in Operations Management area (Jan 2025 - present).
2. Visiting research assistant at **Zuse Institute Berlin**'s Interactive Optimisation and Learning Lab (Jan 2024 - May 2024).
3. Research intern with **Professor Nicole Muecke** at Institute for Mathematical Stochastics (Technical University of Braunschweig, Germany) (May 2023 - July 2023).
4. Research intern with **Dr. Satyaki Mukherjee** in Theoretical Foundations of Artificial Intelligence group (Technical University of Munich, Germany) (Nov 2022 - Feb 2023).
5. Summer Research Fellow with **Prof. Anil Kumar Ghosh** at Indian Statistical Institute, Kolkata (May 2022 - July 2022)

## PROJECTS

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**Uniformly Convex Regularisers for High-Dimensional Optimisation**

[Master's Thesis](#)

*Zuse Institute Berlin*

*Dr. David Martínez-Rubio*

- Thesis supervised by Dr. David Martínez-Rubio at IOL Lab, Zuse Institute Berlin.
- Investigated novel uniformly convex regularisers for integration into the mirror descent algorithm.
- Proved the uniform convexity of powers of p-norms in specific scenarios where uniformly convex regularisers lacked dimension-independent constants.

**Lakshyaan: A Novel Mission for Lunar Water Extraction**

[Report](#)

*Sardar Vallabhbhai National Institute of Technology, Surat*

*Team Lakshyaan*

- Proposed a deep learning architecture to predict fuel-optimal thrust actions for autonomous lunar landing.
- Designed a theoretical methodology for efficient water extraction from lunar regolith.
- Presented at “Lunathon” organized by Spartificial and Indian Space Research Organisation (ISRO) and won second position.

**Methods for Non parametric regression**

[Report](#)

*Indian Statistical Institute, Kolkata*

*Dr. Anil Kumar Ghosh*

- Implemented piece-wise constant and linear estimators for function estimation in multivariate datasets.
- Studied projection pursuit regression and Nadaraya–Watson estimator for smooth, local estimates.
- Built foundations of CART algorithm.

**Methods in Linear Regression**

[Report](#)

*Indian Statistical Institute, Kolkata*

*Dr. Anil Kumar Ghosh*

- Studied estimation of model parameters and the concept of robustness.
- Applied least absolute deviation and quantile regression to data, minimizing the influence of outliers on the model's performance.

**Statistical Analysis of Life Expectancy Data (WHO)**

[Report](#)

*Sardar Vallabhbhai National Institute of Technology, Surat*

*Dr. Raj Kamal Maurya*

- Bachelor's mini project completed under Dr. Raj Kamal Maurya (Dept. of Mathematics, NIT Surat)
- Conducted a comprehensive analysis of global life expectancy trends utilizing statistical methods.
- Identified and characterized significant patterns in life expectancy variations across different countries, highlighting factors influencing these disparities.

## AWARDS/GRANTS

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1. **Gold medalist**, Department of Mathematics, NIT Surat (Batch 2024, CGPA 9.63/10)
2. Presented on **Kernel Regression and Nadaraya-Watson estimators** at the 64th IntERAct seminar series, Department of Mathematics, SVNIT Surat (November 2023)
3. Awarded **DAAD-WISE scholarship** for internship in Germany in summer 2023 .
4. Selected as **Indian Academy of Science** Summer Research Fellow (SRFP 2022).
5. **Finalist**, Smart India Hackathon 2022.
6. **Second position**, Lunathon organized by ISRO (2022).

## TEACHING / MENTORING:

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1. Teaching assistant for [Analysis of Social Networks](#) (Fall 2025), [Optimization Methods](#) (Spring 2026)
2. Mentor for master's thesis of Miss Mahrukh Nazir (LUMS, Pakistan) – Supervised by Prof. Antonietta Mira and Prof. Fabrizio Ruggeri

## LANGUAGES

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Native or bilingual proficiency in **Hindi**  
Full professional proficiency in **English**