

## EDUCATION

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- **Indian Institute of Technology, Kanpur** Kanpur, India  
*Bachelor of Technology, Civil Engineering; GPA: 7.51/10.00* July 2016 – May 2020 (Exp.)
- **Delhi Public School, Kalyanpur** Kanpur, India  
*All India Senior School Certificate Examination, CBSE; Percentage: 95.8%* May 2016
- **Delhi Public School, Kalyanpur** Kanpur, India  
*All India Secondary School Examination, CBSE; GPA: 10/10* May 2014

## ACHIEVEMENTS

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- Ranked among **top 5%** and **top 17%** in rolling leaderboard of **Titanic Survival Classification** and **House Price Prediction Problem**, respectively 2018
- Ranked among **top 3%** out of **200,000** students in JEE Advanced 2016 2016
- Secured **All India Rank 198** in National Science Olympiad (SOF) 2014
- Secured **International Rank 805** in International Mathematics Olympiad (SOF) 2014
- Won multiple **National Level** Inter-College and Inter-School Quiz Competitions 2015-2018

## RESEARCH EXPERIENCE

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- **Travel Behaviour Analysis of India** IIM Ahmedabad  
*Research Intern, mentored by Prof. Sandip Chakrabarti* May 2018 - July 2018
  - Manipulated and analyzed **Census-2011** data to study the **work commute** and **travel behavior** of people across India, district-wise.
  - Analyzed the overnight travel data from **NSSO's 72nd Round of Survey** to explore the district-wise **medical tourism** trends across India.
  - Assisted in the conduction of the **National Capital Region: Travel Survey** to determine the **modal choice** of working population.
  - Used **R** libraries **dplyr**, **ggplot2** and **psych** for data analysis and manipulation.

## KEY PROJECTS

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- **Home Credit Default Risk**  
*Open Kaggle Challenge, Home Credit Group* July 2018 - Aug 2018
  - **Classified** loan applicants based on their capability of repaying a loan based on their current financial status and previous history of loans.
  - Used methods such as **Gradient Descent** and **Bayesian Optimization** to conduct a guided search for the best hyperparameters.
  - Applied Python libraries **NumPy**, **Pandas**, **Scikit-Learn**, **LightGBM**, **Hyperopt**, and **Matplotlib** to arrive at the final result.
  - Achieved a **ROC-AUC score** of **0.77** (Competition Winner: 0.81) in the final evaluation of the model.
- **Automation of Linguistic Category Model**  
*Prof. Aruna Divya T., Indian Institute of Management (IIM) Ahmedabad* Aug 2018 - ongoing
  - Developing an algorithm to automate the classification of **State Action Verbs** based on **Linguistic Category Model (LCM)** proposed by Semin and Fiedler.
  - The preliminary idea is to use the output of Part-of-Speech Tagger for classification.
  - Merging the **WordNet** and **SentiWordNet 3.0** databases to read the code for each word and its corresponding SynSets.
  - This project is a **work in progress**.

## RELEVANT COURSEWORK

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Probability & Statistics	Introduction to Programming	Linear Algebra and ODE
Applied Psychology	Geoinformatics (O)	Computational Methods (O)
Big Data Modelling*	Corporate Finance*	Investment Philosophy* (O)

*O: Ongoing, \*: Audited MOOCs*

## SKILLS

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- **Languages** : C++/C, Python, R
- **Software and Utilities** : L<sup>A</sup>T<sub>E</sub>X, Stata, Jupyter Notebook, MATLAB
- **Operating Systems** : macOS, Windows

## POSITIONS OF RESPONSIBILITY

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- **Coordinator** Quiz Club, IIT Kanpur *April 2018 - Present*
- **Proctor** World Quizzing Championship, Kanpur Leg *June 2017*
- **President** Quiz Club, DPS Kalyanpur *Aug 2015 - March 2016*

## ACADEMIC REFERENCES

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### **Prof. Sandip Chakrabarti**

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Public Systems Group,  
Indian Institute of Management Ahmedabad  
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