

EDUCATION

- **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

- 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

- **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

- **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

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

- **Languages** : C++/C, Python, R
- **Software and Utilities** : \LaTeX , Stata, Jupyter Notebook, MATLAB
- **Operating Systems** : macOS, Windows

POSITIONS OF RESPONSIBILITY

- **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*