

EDUCATION

- **Indian Institute of Technology, Kanpur** Kanpur, India
Bachelor of Technology, Civil Engineering; GPA: 7.81/10.00 *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*

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

- **Highway Accidents' Parameter Determination** *Dec 2018 - Ongoing*
Prof. Vineet Kumar, Yale School of Management, New Haven, CT, USA
 - Using Deep Learning approaches like **Convolutional Neural Networks (CNNs)** to determine which features of roadways cause more accidents.
 - **Google's Maps** and **Routes API** will be utilized to extract data in the form of satellite images of various highway intersections and exits.
 - This project is a **work in progress**.
- **Automation of Linguistic Category Model** *Aug 2018 - Oct 2018*
Prof. Aruna Divya T., Indian Institute of Management (IIM) Ahmedabad
 - Automated the classification of **State Action Verbs** based on **Linguistic Category Model (LCM)** proposed by **Semin** and **Fiedler**.
 - Implemented the algorithm developed by **Reyt et al. (2016)** to classify Yelp reviews based on their **construal level**.
 - Merged the **WordNet** and **SentiWordNet 3.0** databases to read the code for each word and its corresponding SynSets.
- **Home Credit Default Risk** *July 2018 - Aug 2018*
Open Kaggle Challenge, Home Credit Group
 - **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.

RELEVANT COURSEWORK

Probability & Statistics	Introduction to Programming	Linear Algebra and ODE
Applied Psychology	Geoinformatics	Computational Methods
Foundations of Finance (U)	Investment Philosophy* (O)	

*U: Registered for Spring Semester, O: Ongoing, *: Audited MOOCs*

SKILLS

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

ACHIEVEMENTS

- Ranked among **top 5%** in Kaggle's **Digit Recognizer: MNIST** Challenge with an accuracy of *2018*
- Ranked among **top 5%** in Kaggle's **Titanic Survival Classification** Challenge *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*

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*

ACADEMIC REFERENCES

Prof. Sandip Chakrabarti

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