

# Prateek Roy

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## Education

QUALIFICATION	INSTITUTION	CPI/%	YEAR
B. Tech: Civil Engineering	IIT Kanpur	7.2	2018
Senior Secondary (12th Grade)	Goodley Public School, Delhi - 110088	93.2%	2014
High School (10th Grade)	Goodley Public School, Delhi - 110088	10.0	2012

### Scholastic Achievements

- GATE -19 Score (CE)- **675**;  
AIR - **1783**
- GATE -18 Score (CE)- **564**;  
AIR - **5400**
- JEE Advanced (2014)  
Category Rank - **467**

### Programming Languages

- JavaScript
- HTML / CSS
- Python
- C++
- MATLAB

### Software

#### Web Development

- Angular
- Vue
- Django
- SQL

#### General

- Photoshop
- Github/Heroku

### Projects

#### ATMOSPHERIC POLLUTION IN INDIA: DATA ANALYSIS AND EVALUATION

##### *Undergraduate Project*

- Collected all the available data of different pollutants in major cities of India and found the annual pollution trend in each city. The pollution levels across all the cities with respective meteorological parameters such as temperature, solar radiation, relative humidity and precipitation were compared.
- Found correlation between different pollutant concentrations and meteorological parameters and commented on any significant correlation explaining or speculating the underlining cause.

#### MULTI - HEURISTIC A\* ALGORITHM

##### *Academic Project in EE698G*

- Studied the variation in efficiency provided by the multi-heuristic A\* algorithm compared to the single heuristic A\* algorithm by providing different combinations of heuristic functions.
- The comparison was made by using the heuristics in a sliding tile puzzle and the time taken was noted against the minimum number of steps required to solve the puzzle.

#### WEB DEVELOPMENT PROJECTS

- **Konnect - Messaging App:** It's a web application that allows you to text to your friends. The project is made with HTML/CSS and JavaScript with dependencies like ExpressJS, socket.io, etc.
- **To-do List App:** A web app to help you manage your tasks. The project is made with the help of Angular Framework.
- **Registration Template:** A generic registration portal that allows you to register, login or deactivate user. Uses HTML/CSS and javascript with dependencies like ExpressJS, PassportJS, etc.

*\*All the projects are available at my github as open source.*