

Aditya Gupta

MTECH (Industrial & Management Engineering)

Email- aditgupt@iitk.ac.in | Contact: +91 8839155236

ACADEMIC QUALIFICATIONS			
Year	Degree	Institute	CGPA/%
2018- Present	M.Tech (Industrial and Management Engineering)	Indian Institute of Technology, Kanpur	7.26*
2018	B.E (Mechanical Engineering)	Madhav Institute of Technology and Science, Gwalior	7.62 [#]
2014	Class XII (M.P.)	Greenfield Higher Secondary School, Indore	79.6
2012	Class X (CBSE)	St. Jude's Higher Secondary School, Kargone	8.6

*upto 2nd semester

SUMMER INTERNSHIP		
Project Intern at Invex Corp. Pvt. Ltd.	Mentor: Zeeshan Haider	<i>May-July 2019</i>
Problem Statement: The objective of the project was to create an Analytics dashboard for political parties which can be used as a powerful tool in political decision making.		
Functionalities: Dashboard includes constituency wise list of voters, Tabs for real time campaign management , Google maps to view the Demographic distribution of Data and Results on Maps , Bulk messaging capabilities, Various reactive visualization for Booths , Previous Results Analysis to calculate persuadability , partywise vote distribution and projected turnout.		
Tools Used: Created Voter Database using Python Selenium framework and Pyautogui library , R shiny helped in creating interactive webpages and used shiny server to host the dashboard , Used Plivo integration of R for bulk messaging , Used Excel for Booth mapping and Python for cleaning and automating the process of Result analysis calculations.		

ACADEMIC PROJECTS	
Data Mining	Prediction of House Price using Advanced Regression Technique <ul style="list-style-type: none">The aim of the project was to predict the House price from the given training dataset with 1460 rows and 76 columns.Steps included Data Preprocessing, Data Visualization and Model Building in R.Used advanced Regression techniques like Random Forest and Gradient Boosting.Lasso and XGBoost performed well with a cross validation RMSE score of 0.1121 and 0.1162 respectively
Statistical Modeling for Business Analytics	Time Series Data analysis on Bike Sharing Data <ul style="list-style-type: none">Inspected the data for trends, cyclicity, seasonality and carried out Data Cleaning by Removing Outliers.Applied ARIMA MODELS: transformed data into Stationary Time Series and identified the AR and MA parts.Chosen best order parameters on the basis of AIC and ACF , PACF plotsPredicted the demand for bike with 95% and 80% Confidence Interval. Predicting the Price of Used Toyota Corolla Cars <ul style="list-style-type: none">Created a model to predict the price of used Toyota cars.Used Descriptive Statistics: Mean, Standard Deviation, Correlation, and Multi-Collinearity & Heteroscedasticity.Carried out the single, multiple and Non linear regression using R to analyze the variation in Price with the independent variables.Concluded that inbuilt features such as weight , Fuel Type , Type of Drive of a car has much more effect on determining its second hand value as compared to time variable factors like Kilometer run and Age.
Academic Term Papers	Stochastic Processes – Page Ranking Algorithm <ul style="list-style-type: none">A brief Mathematical study of Page Ranking Algorithm starting with the basic idea to formulating it mathematically along with its implementation and limitations.The process includes formation of Google matrix and teleportation matrix. Operation Management – Equilibrium evolution in two – echelon supply chain with financially constrained retailers <ul style="list-style-type: none">In an inventory system, levels of system such as factories, warehouses, retail outlets etc. are referred as Echelons.Studied the models for the effects on supply chain performance due to retailer's capital structure.

COURSEWORK AND SKILLS	
Relevant Courses	Data Mining and Knowledge Discovery Advanced for Statistical Modeling Business Analytics Statistical Modeling for Business Analytics Probability & Statistics Stochastic Processes and its Applications Operations Research for Management Operations Management Computer Aided Decision Support Systems
Technical Skills	Python (numpy, pandas, matplotlib) R R Shiny Java MS Office (Excel, Word, PowerPoint) MySQL

POSITIONS OF RESPONSIBILITY	
<ul style="list-style-type: none">Elected as a Senator, <i>Student's Gymkhana</i>, IIT-Kanpur representing M.Tech batch of 2017.	<i>(2019-'20)</i>

ACADEMIC AWARDS AND ACHIEVEMENTS	
<ul style="list-style-type: none">Secured 99.23 percentile in GATE-2018 examination.Completed Machine Learning A – Z through R and Python course by SuperDataScience Academy on udemy.Awarded 'B' certificate in NCC.Worked under Brakes Department in a team project for BAJA 2016 organized by SAE-India to design an All Terrain Vehicle(ATV).Won 3rd prize in Interschool Science Exhibition in class 10th.	<i>(2017)</i> <i>(2015-'16)</i> <i>(2011)</i>

HOBBIES AND INTERESTS	
Reading Newspaper , Running , Play Flute and Harmonica	

LinkedIn Profile Link- [linkedin.com/in/aditya-gupta-a43aa6167](https://www.linkedin.com/in/aditya-gupta-a43aa6167)