RAHUL KARNA

MTECH (Industrial & Management Engineering)
Email- rahulkrn@iitk.ac.in | **Contact**: +91 8919106898

ACADEMIC DETAILS

YEAR	DEGREE	INSTITUTE	PERFORMANCE
2018-Present	M.Tech. (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	9.48*
2014-18	B.Tech. (Mechanical Engineering)	Aditya Engineering College, Andhra Pradesh	83.24%
2014	Class XII, HSEB Board	Goldengate Higher Secondary School, Kathmandu	83.9%
2012	Class X, Nepal Board	Shree Rajdevi Tha Jo Bha Madhyamik Vidhyalaya	88%

upto 2nd semester

SUMMER INTERNSHIP

Intern at Zirca Digital Solutions, Gurgaon

Project Title: The role of tools and platforms in Digital Communications - Martech and Adtech? Does the ROI justify the spends on these tools? Where do they see the most Impact?
➔ Exploration of various tools and platforms present in Adtech and Martech.
➔ Key differences between Adtech and Martech.
➔ Major impacts of these technologies.

ACADEMIC PROJECTS

Data Mining	**New York Taxi Fare Prediction using R programming** • The aim of the project was to predict the taxi fare for various test data based on training data given for 55 million taxi rides by developing a model on basis of pickup and drop-off locations and datetime data. • Steps included Data Preprocessing, Data Visualization and Model Building with Comparison of Models in R. Data collected from- https://www.kaggle.com/c/new-york-city-taxi-fare-prediction
Statistical Modeling for Business Analytics	**Rainfall Forecasting of UP East Region using Time Series Analysis** • Performed **Exploratory Data Analysis**: review of Summary Statistics and plots. • Inspected the data for any **missing values**, **trends**, **seasonality**, **cycle** or **outlier**. • Applied **ARIMA** models: transformed data into **Stationary Time Series** and identified the **Auto-Regressor** & **Moving Average** parts. • Established a model with least Akaike information criteria **(AIC)**. **Analysis of the Factors Affecting Gross Domestic Product (GDP) per Capita** • Created a model to predict GDP per capita using literacy rate, death rate, fraction of land for crops, fraction of total population in services and industries. • Performed **Regression** analysis and finalized a **multivariate regression model** on the basis of R^2 & **adjusted R^2** value.
Stochastic Processes	**A term paper on Google PageRanking Algorithm** • Study of PageRanking algorithm as an application of Stochastic process. • A mathematical study starting with its mathematical formulation as a Markov Chain with its applications.

COURSEWORK AND SKILLS

Relevant Courses	Probability and Statistics | Operations Research | Design of Production Systems | Introduction to Computing | Data Mining and Knowledge Discovery | Statistical Modeling for Business Analytics | Stochastic Processes | Advanced Decision Models | Operations Management |
Technical Skills	R | Python | GAMS | Java | MS Excel

POSITIONS OF RESPONSIBILITY

• Co-ordinator at Sieger Pro Karting Championship -2018, Aditya Engineering College
• Exhibitor at National Level Science Exhibition -2013, Goldengate International College, Kathmandu

ACADEMIC AWARDS AND ACHIEVEMENTS

• Pursued B.tech with Full scholarship under Compex Exam Scholarship Scheme 2014 provided by Government of India.

LinkedIn Profile Link- https://www.linkedin.com/in/rahul-karna-1b1817140/