AKASH KUMAR

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ACADEMIC DETAILS

YEAR	DEGREE	INSTITUTE	PERFORMANCE
2018-Present	M.Tech. (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	8.27*
2017	B.E.(Mechanical Engineering)	Shri Shankaracharya Technical Campus/SSGI(FET), Bhilai	80.68%
2013	Class XII, CBSE Board	Krishna Public School, Bhilai	81.60%
2011	Class X, CBSE Board	Krishna Public School, Bhilai	93.10%

upto 2nd semester

SUMMER INTERNSHIP

Data Analyst Intern at Call the Doc Healthcare Solutions Pvt. Ltd., Jaipur   May – July'19

The objective of the project, titled *"Automated Order Extraction from Email and Data Analysis using Python and R"*, was to automate the process of organization and to find optimum value of resources which can influence the revenue generated by company at present as well as in future using statistical modeling techniques.

ACADEMIC PROJECTS

Statistical Modeling for Business Analytics

Time Series Forecasting of Monthly Ridership on Amtrak (US railway company) Trains
- The aim of this project is to predict the total number of riders on Amtrak Train for future dates.
- Done Data preprocessing, Individual Feature Visualization
- Data analysis is done by R and Data modeling algorithms like Linear Trend, Polynomial Trend with seasonality and ARIMA are used .
- All the three models are compared based on Root Mean Square Forecast Error (RMSFE)
- Finally, ARIMA model is used for forecasting.

Analysis of the Advertising Media affecting Sales: OLS Multiple Regression Techniques
- The project is on Analyzing the effect of Advertising media on sales by creating different regression models to see the impact of budget spent for different advertising media on the amount of sales.
- Dataset consists of 3 independent variables(predictors) and a dependent variable(response).
- By R programming ,we plotted different graph like scatter plot and correlation matrix which helps in finding relationship between variables and also in estimating regression coefficients.
- Carried out Linear and Multiple Linear Regression using R.

Data Mining

House Prices: Advanced Regression Technique
- Predicted the sales price of the houses using advanced Regression techniques based on 79 explanatory variables which describes (almost) every aspect of residential homes.
- The dataset contains 1460 observations in the training set and 1459 observations in the test set. There are 46 categorical variables including 23 nominal and 23 ordinal ones, and 33 numeric variables in the dataset.
- Steps include Data Preprocessing and Statistical analysis, Data visualization, Model building with Comparison of Models and predicting test data from trained model using **R.**

COURSEWORK AND SKILLS

Relevant Courses	Data Mining and Knowledge discovery	Statistical Modelling for Business Analytics	Operations Research	Probability & Statistics	Operation Management	Introduction to Computing-Java	Computer Aided Decision Systems	E-Supply Chain Management	Business Management using Cloud	Advanced Statistical Modelling for Business Analytics
Technical Skills	Python	R	SQL	Java	C++	C	MS Excel	PHP	HTML	ANSYS (Structural and Thermal Analysis)	PRO-E (Modeling, Assembly and Drafting)|

POSITIONS OF RESPONSIBILITY

Internship Coordinator, IME, IIT Kanpur
- Elected as Internship Coordinator of IME department for the year 2018-19
- Responsible for internship of M.Tech students of IME Department, IIT Kanpur

ACADEMIC AWARDS AND ACHIEVEMENTS

- Secured **All India Rank 977 (99.50 percentile)** in GATE-2018(Mechanical)
- Secured All India Rank-393 in 11th National Cyber Olympiad-2011

EXTRACURRICULAR ACTIVITIES

- Active member of Unnat Bharat Abhiyan (UBA) is MHRD, Govt of India initiative taken by IIT Kanpur.
- Act as a Hike Sweeper in a team of 26 members from the Adventure Club of IIT Kanpur to a Himalayan trek.