

ACADEMIC DETAILS

YEAR	QUALIFICATION	INSTITUTE	PERFORMANCE
2019	M.Tech (Industrial and Management Engineering)	Indian Institute of Technology, Kanpur	8.0*
2018	B.Tech (Mechanical Engineering)	V.I.T. Pune	8.38
2014	Class XII , Maharashtra Board	S.B.E.S. College of Science	83.08
2012	Class X , C.B.S.E.	Kendriya Vidyalaya, Aurangabad	10.0

* Upto 2nd semester

ACADEMIC PROJECTS

Data Mining	Store Item Demand Forecasting (Oct'19-Nov'19) <ul style="list-style-type: none"> Objective: To forecast 3 months of sales for 50 different items at 10 different stores using 5 years of store-item sale data Inspected the data for Trend, Cyclicity and Seasonality; Non stationarity of data was confirmed using Dickey Fuller test Applied ARIMA model: Transformed the data into stationary time series and decided the number of terms in Autoregressor and Moving Average parts using ACF and PACF plots Best results were obtained using Prophet Model with SMAPE (Symmetric Mean Absolute Percentage Error) of 1.89
Statistical Modelling for Business Analytics	Bank Marketing data - Intelligent targeting (Mar'20-Apr'20) <ul style="list-style-type: none"> Objective: To predict whether a customer will subscribe to the term deposit or not using previous marketing campaign dataset having around 11k data points and 17 variables Performed univariate and bivariate visualization using box plot, bar chart and line chart Carried out feature engineering in which created dummy variables and created some extra features Models used: Probit and Logit. Recursive feature elimination was done to finally obtain a model giving Area Under Curve (AUC) of 0.85 for the Receiver Operating Characteristics (ROC) curve, sensitivity of 0.72 and F1 score of 0.74 Random Forest further improved the performance to give sensitivity of 0.89 and F1 score of 0.88
	Medical Insurance Premium Prediction (Jan'20-Feb'20) <ul style="list-style-type: none"> Objective : To obtain a relationship between the cost of medical insurance premium and independent variables like sex, age, smoking habit, BMI, children and region using multiple linear regression Scatter plots, box plots and histograms were used to get important insights of the data Calculated correlation matrix, performed White test to determine heteroskedasticity and checked for multicollinearity. Linear models were built and highest R square value of 0.747 was obtained An additional attribute of BMI of Smoker (Interaction variable) was included and then data was modelled to get improved R square of 0.818
Marketing Research	Brand comparison between footwear brands(Adidas, Nike, Puma) (Feb'20-Apr'20) <ul style="list-style-type: none"> Objective: To compare the footwear brands on the basis of Price, build features, durability etc. ; To study the effects of discounts, celebrity endorsements and advertisements on the customer behaviour Questionnaire was designed and data was collected using an online survey Hypotheses were formulated and one tail and two tail statistical tests were conducted for each of the hypothesis The SPSS analysis provided useful insights to understand consumer behaviour and helped to compare between the brands

COURSEWORK AND SKILLS

Courses	Data Mining and Knowledge Discovery Probability & Statistics Introduction to Computing Stochastic Processes and their Applications Marketing Research Statistical Modelling for Business Analytics Introduction to Game Theory (on-going course) Advanced Decision Models Operation Research for Management
Technical skills	R Python (Numpy, Pandas, Matplotlib, Scikit-Learn, Seaborn) C Java SQL MS Office (Excel, Word, PowerPoint)

INDUSTRY EXPOSURE

Harvesting India Pvt. Ltd. (Apr'20- Jun'20) <ul style="list-style-type: none"> Building Footprint Regularisation Reviewed around 15 research papers to propose a specific, robust and effective polygon regularization algorithm that transforms the segmented building boundary to structured footprints; The algorithm is in deployment stage in the company Programmable Whatsapp Messaging Devised a system to send notifications on Whatsapp to the customer on receiving the payment using Twilio API for Whatsapp; Tested successfully in the sandbox environment
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ACHIEVEMENTS AND CERTIFICATIONS

<ul style="list-style-type: none"> R Programming (Loops, Matrix and vector usage, Debugging, simulation and profiling) Machine Learning (Regression, SVM, Ensemble methods, Decision tree, Clustering, PCA, SGD) Deep Learning: Hands on Artificial Neural Networks Introduction to Data Structures and Algorithms (Arrays, Stacks, Queue, Linked list, Recursion and trees) Participated and secured good positions at various national level Science and Maths Olympiads. Letter of appreciation from Maharashtra Board of Higher Secondary Education for performance in H.S.C. Letter of appreciation from Ministry of H.R.D for performance in S.S.C
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POSITION OF RESPONSIBILITY

<ul style="list-style-type: none"> Served as Teaching Assistant for the course of Probability and Statistics, Industrial and Management Engineering, IIT Kanpur
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EXTRA CIRRICULAR

<ul style="list-style-type: none"> Participated in a week long Meditation and Yoga workshop organized by VOICE (Vedic Oasis for Inspiration, Culture and Education)
