

PARAS ARORA

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MTech (Industrial & Management Engineering)

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ACADEMIC DETAILS			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE
2018-20	M.Tech (Industrial & Management Engineering)	Indian Institute Of Technology, Kanpur	8.51* (CPI)
2013-17	B.Tech (Mechanical Engineering)	Harcourt Butler Technical University, Kanpur	72.60%
2012	Class XII (CBSE)	Krishna Public School, Meerut	88.8%
2010	Class X (CBSE)	Meerut Public School, Meerut	93.1%

*upto 2nd semester

SUMMER INTERNSHIP	
Data Science Intern at Core Compete Pvt. Ltd., Pune	(May'19-July'19)
<ul style="list-style-type: none">Objective of the project was to Integrate Python and SAS Models in Model Manager using SAS ViyaBuilt Churn prediction models for telecom company in Python and SAS Model StudioIt included Data pre-processing and Statistical analysis of variables and K-fold cross validation for resamplingClassification Models used were Logistic Regression, Random Forest and XGBoostPython and SAS Models were registered in Model Manager and were used for scoring different datasetsAll the Models can be compared in Model Manager irrespective of the platform on which the model is builtSuggested them to use SWAT for using SAS Viya through Python interface	

ACADEMIC PROJECTS	
Data Mining	New York City Taxi fare prediction (Sept'18-Nov'18) <ul style="list-style-type: none">The objective of the project was to predict taxi fare for New York city from the given dataset of 55 million rowsSteps included Data pre-processing, Data visualization, Stratified Sampling, Feature Engineering and Model building in RModels used were Linear Regression, decision tree and ensemble methods like Random forest and boostingModels were tuned and compared on basis of RMSE metric
Statistical Modeling for Business Analytics	Predicting Income class using Logistic Regression using Adult data set from UCI Machine Learning Repository (Jan'19-Mar'19) <ul style="list-style-type: none">The aim of the project was to predict whether a person's income is <50K or >=50K (target variable) based on given factorsFactors affecting income were "age", "education", "marital status", "gender", "income" etcData cleaning: Reduced the total no of factors in some columns and handled missing values and discrepanciesLogit and Probit models were used for classifying the income class.Reported an accuracy of about 84.3%, precision of 61.9% and a recall of 52.8%, AUC of ROC curve was 0.88
	Predicting quality of Red wine using Statistical Regression Models (Feb-March'19) <ul style="list-style-type: none">The data consisted of 1599 observations of 12 variables, Determined correlation matrix and checked for MulticollinearityCarried out multivariate statistical regression analysis to study the factors influencing quality of red wineBreusch-Pagan test showed heteroskedasticity, hence "heteroskedastic robust errors" were usedAdjusted R2 without and with robust error was 0.3567 & 0.381 respectivelyStatistically significant variables were alcohol, volatile acidity, density, chlorides and pH
Stochastic Process	Credit Card Fraud Detection using Hidden Markov Models (Feb'19-Apr'19) <ul style="list-style-type: none">Used simulated data of a credit card user to train a Hidden Markov Model and estimated transition and emission probabilitiesUsed Forward-backward algorithm and sequentially predicted whether the upcoming transaction is fraud or notReported 58% precision, 81% recall and F1-Score of 0.67
Decision Support System	Design a database incorporated System for 2 subprojects (Feb'19-Apr'19) <ul style="list-style-type: none">Designed user friendly and dynamic Decision Support System(DSS) to compare means of groups using one-way ANOVA method, leveraging HTML/CSS and PHP on serverDesigned a Relational Database in SQL(MariaDB) for account opening form of a bank(HTML/CSS) and connected with Dashboard using PHP to store the data entered by user

COURSEWORK AND SKILLS	
Relevant Courses	Data Mining and Knowledge Discovery Statistical Modeling for Business Analytics Probability & Statistics Accounting and Finance Stochastic Processes and its Applications Advanced Corporate Finance Security Analysis & Portfolio Management Derivative Contracts Mergers & Acquisition Computer Aided Decision Support Systems Operations Research for Management Introduction to Computing- JAVA
Technical Skills	Python(NumPy, Pandas, seaborn, sklearn, keras, TensorFlow) R SQL MS Office PHP HTML SAS Model Studio

POSITIONS OF RESPONSIBILITY	
<ul style="list-style-type: none">Internship Coordinator at Department of Industrial and Management Engineering, IIT Kanpur (Aug'18-Apr'19)Marketing Secretary at Entrepreneurship Cell, IIT Kanpur (Feb'19-Present)Marketing Executive at Association of Mechanical Engineers, H.B.T.I. Kanpur (Jul'14- May'16)	

ACHIEVEMENTS & CERTIFICATIONS	
<ul style="list-style-type: none">Secured 99.5 percentile in GATE Mechanical 2018.Secured second prize in Junkyard Wars, Mecharnival (Annual Techno-cultural fest)Secured 8970 rank in IIT-JEE 2013Certified Business Analytics Professional Course: Linear & Logistic Regression, Decision Tree, Segmentation, Market Basket AnalyticsMachine Learning (Breast cancer detection with SVM & KNN, Credit card fraud detection, Stock market clustering, Deep learning grid search, DNA classification, Text classification, Object recognition, PCA)	