ABHISHEK VERMA

abhivr@iitk.ac.in | Mobile: 805767167

Academic Qualification:

Year	Degree	Institute	Performance
2018-present	M.Tech.(Industrial and Management Engineering)	IIT KANPUR	7.21/10
2014-2018	B.Tech.(Industrial and Production Engineering)	College of Technology, Pantnagar	71.13%
2013	Class XII,M.P. Board	Raja Rammohan Roy Academy	79.40%
2011	Class X, M.P. Board	Raja Rammohan Roy Academy	85.40%

Academic Internships:

Company: ZIRCA Digital Solutions, Gurugram   *May-July 2019*

- Analyzed the dataset of BIBA OFFICIAL ONLINE STORE which consists of 123000 data points and 20 variables using **Text Mining**
- Implemented **text segmentation, named entity recognition, feature extraction** and other techniques to filter out the negative keywords
- Carried out **sentiment analysis** on raw text to filter out any irrelevant data and prepared a database containing relevant keywords
- **Worked with R&D team** and presented a report to the CEO and Client during the internship

Company: John Deere, Pune   May-2017

- Contributed to the productivity improvement by analyzing the plant layout and manufacturing processes
- Proposed a plan which incorporates the most efficient arrangement of plant elements for effective utilization of space

Company: Bharat Heavy Electricals Limited   *May-2016*

- **Analyzed the operations** performed in the bus duct mill and studied about the **production system of department**
- **Interpreted various supply chain aspects** and performed a **cash flow analysis** on small level

Academic Projects:

Prediction of sales price of houses using supervised learning   *April-2019*

- Carried out **Preprocessing, Multivariate analysis and Feature Engineering** on the dataset having 1460 observations and 80 variables
- Analyzed the test variable(Sale Price), mapped it on a Normal Distribution Curve to check its deviation from Normal Distribution
- Applied 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

Predicting income class using Logistic Regression   *Feb-2019*

- **Performed exploratory data analysis** to get an insight of data and found out that 75% of data belong to class <50K
- Classification of income class was carried out using **Logit and Probit** models
- Performance of both models was similar with **accuracy of 84.3% and precision of 61.9% and recall of 52.8%**
- **AUC of ROC curve was 0.88** which shows that model's predictive power is appreciable

Predicting RED WINE QUALITY using Statistical Regression Models   *Nov-2018*

- **Multicollinearity** between variables was checked using correlation matrix
- Carried out Multiple Linear Regression keeping quality as dependent variable and other variables as independent
- **Breusch-Pegan test** showed that there is **heteroskedasticity** in the data
- Heteroskedastic Robust Errors were used for regression on significant variables to take heteroskedasticity into account
- Adjusted R2 without robust error was 0.3567 and with robust error was 0.3810

Consumer behavior towards Addidas footwear   *Nov-2018*

- Conducted an online survey and analysis in SPSS for knowing consumer behavior
- Performed various parametric and non-parametric tests in SPSS

Coursework and Skills:

Relevant Courses	Data mining and knowledge discovery | Statistical models for business analytics | Advanced statistical models for business analytics| Probability & Statistics | Introduction to computing (using JAVA) | Operation Research for Management | Operations Management | Marketing Research | Computer Aided Decision Systems
Technical Skills	Python(NumPy, SciPy, Matplotlib, Pandas) | Java | PHP | SQL |MS Excel |HTML| R | C

Online Learning and Certifications	Neural Network and Deep Learning(Coursera)
	Sequence Models(Coursera)

Position of Responsibility:

- **Senator M.Tech Y18**, Students Senate IIT Kanpur
- **Co-coordinator** of Proconcoct in Colosseum,17(National level Technical Festival)
- **Co-coordinator** of Camera Keeda in Colosseum,17(National level Technical Festival)
- **President B.Tech Y17,** Branch chapter(Genesis)

Awards and Achievements:

- Secured **All India Rank 58 in GATE-2018**
- Secured **1st position** in Prognosis(Social Paper Presentation)

Extra- Curricular Activities
- Secured **1st position** in Nukkad Natak Competition
- Secured **1st position** in Skit Competition held in College of Veterinary Sciences

Hobbies and Interest:

Theatre Enthusiast | Swimming | Travelling and Exploring New Places