

YOGENDRA VYAS

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ACADEMIC QUALIFICATIONS

YEAR	DEGREE	INSTITUTE	CPI/%
2020	M.Tech (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	7.5*
2017	B.E. in Mechanical Engineering	Madhav Institute of Technology and Science Gwalior(MP)	8.17
2013	Class XII, CBSE	All Saints' School Bhopal	91.40%
2011	Class X, CBSE	All Saints' School Bhopal	10/10

*upto 2nd semester

INTERNSHIP

Data Science Intern, NGI Ventures

Mentor: Upal Roy *May'19 - July'19*

- Worked for Xtlytics Platform by developing and building models of **Multiple Regression, Poisson Regression and Gaussian Mixture Models** and adding statistical parameters to it with the help of team.
 - Predicted the **Life Expectancy rate using Multiple Regression Model** for various individuals using dataset consisting of **2939 rows**, with Final R-squared value as **0.67**.
 - Worked on Customer Lifetime Value Dataset(**9500 rows**) to check lifetime values, model used was **Random Forest Classifier** with python libraries like Numpy, Pandas and SKlearn. Accuracy calculated was **0.8752**
- Power BI Tool**
 - Build dashboards on Power BI tool for company's domain on **Insurance, Education, Supply chain and Retail Sales**. Studied the insights using visualizations like **Tornado Chart, Tree Map, Geo Maps and Heat Maps** etc. Also Included Key Performance Indicators like **gauge Charts and Bullet Charts**.
 - Completed the online Training course on Business Intelligence for Data Analytics(Power BI) and received **certificate** from **Microsoft**.

POSITIONS OF RESPONSIBILITY

PG Core Team, Counselling Service, IIT Kanpur

April '19- Present

Leadership	-Coordinating in a team of 9 members along with faculty members and counselors to provide academic, financial and emotional support to the Post Graduate student community -Led a team of 110 student volunteers to organize an 8 day extensive Orientation Program for 1200 students -Single handedly managed the finance and logistics for PG Counselling Team during orientation period.
Initiatives	-Organized PhD Orientation to address problems specifically faced by doctoral students

PG Senator at Students' Senate Gymkhana, IIT Kanpur

Aug'18 - March'19

Leadership	- The committee addresses the issues(academic or non- academic) related to PG section, with the vision of better incorporation of the voice of the PG students in the Gymkhana.
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RELEVANT PROJECTS

Analysis of Budget spent on different Advertising Media by number of sales

Jan '19- Feb '19

- The advertising dataset consist of the sales of the product in 200 different markets, along with advertising budget for the product in each of those market for three different media; TV, radio and newspaper.
- We also accessed **MLR** model assumption like **linearity, homoscedasticity, normality** of residual using **residual plot** and **QQ plot**.
- Our final model included TV and Radio variables with **adjusted R(square)** value close to **0.9**.

Time Series Forecasting of Ridership on Amtrak Trains

March '19- April '19

- Amtrak, a US railway company, routinely collects data on ridership, we developed an accurate model that can be used to predict the number of ridership between January 1991 and March 2004(159 months).
- Constructed a second level forecasting model AR(1) on residuals to capture autocorrelation and plot ACF and PACF. Used Box-Jenkins method to find the best fit of a time series ARIMA model.

Music Recommendation System

Sept '18- Nov '18

- Build music recommendation system using the dataset that holds Asia-Pop music library with over **30 million** tracks.
- Performed pre-processing on the dataset including **PCA**, used **k-fold cross validation** for generating training and a validation dataset.
- Generated classification report and confusion matrix for getting evaluation matrix like **precision, recall** and **F-1 score** & best **accuracy** of **69.62%** with XGBoost classifier.

Predict mortality records of a group of people who suffered a disease 'X'(Prabandhan Competition)

Aug '18- Sept '18

- Aim was to predict mortality rate of people using Logistic Regression classification with **Backward Elimination** technique.
- Performance evaluation was done by calculating and plotting **Confusion matrix, ROC curve** and **AUC**.

COURSEWORK AND SKILLS

Relevant Courses	Data Mining and Knowledge Discovery Machine Learning Statistical Modeling for Business Analytics Probability and Statistics Operations Research Computer Aided Decision Systems
Technical Skills	Python R Java HTML PHP SQL MS Office Power BI

AWARDS & ACHIEVEMENTS

- Was the **Finalist** of **ACCS Prabandhan 2018** a national level competition organized by **MBA, IIT Kanpur**.
- Won **first prize** in poster presentation competition on **Atmospheric Vortex Engine** at **MITS Gwalior**.