SHUBHAM SHUKLA

M.Tech. (Industrial & Management Engineering)

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ACADEMIC DETAILS

Year	Qualification	Educational Institute	Performance
2018-Present	M.Tech. (Data Science)	Indian Institute of Technology, Kanpur	6.77*
2016	B.Tech. (Mechanical Engineering)	Madan Mohan Malaviya University Of Technology Gorakhpur, U.P.	73.26%
2011	Class XII, UP Board	Sri Vidya Mandir Inter College Hamirpur, U.P.	73.80%
2009	Class X, UP Board	Saraswati Vidya Mandir Inter College Hamirpur, U.P.	76%

upto 2nd semester

COURSEWORK AND SKILLS

Relevant Courses	**Probability and Statistics**	**Statistical Modelling For Business Analytics**	**Advanced Statistical Modelling For Business Analytics**	**Data Mining and Knowledge Discovery**	**Marketing Research**	**Operations Research**	Computer Aided Decision System	Introduction to Computing	Business Management Using Cloud	Renewable Energy - Economics, Policy and Regulation
Technical Skills	**Python**(NumPy, SciPy,pandas, matplotlib, scikit-learn, geopy)	**R** (xGboost, ggplot, dpyler, caret)	**SQL**	MS office(Word, PowerPoint, Excel)	HTML	PHP	CSS	SPSS

WORK EXPERIENCE

Assistant System Engineer in TATA CONSULTANCY SERVICES *(20 Mar'17-29 Jun'18)*

- Work on soap UI system which connect the front end and back end of the bank system through schema, mapper etc.
- Manage and solve the error generated: transaction failed , OTP error etc. by checking internally system through request and response messages
- Use of Webserver developer language on converting the request in the required system format

SUMMER INTERNSHIP

Transworld terminal Pvt Ltd. New Delhi

- To study the ongoing Delhi –Mumbai Industrial Corridor(DMIC) to explore the new logistics sector opportunities and locate a Mega Distribution Centre for products related to four given sectors : FMCG, Life Style, Chemical, Automobile
- Find the minimum cost capacity vehicle routing problem which satisfies demand, distance constraints
  - Tool to find latitude-longitude from Pin Code by use of google API key and Distance calculator from longitude – latitude using python and excel tool
  - Calculation of number of vehicles based on monthly demand under min cost criterion using python
  - Studied research paper on **capacity vehicle routing problem** and plot best route(not optimal) based on **meta heuristic "tabu-search algorithm"**

Technology Used: Google API,python(matplotlib,NumPy,openpyxl,tkinter,random),excel

ACADEMIC PROJECTS

Statistical Modelling for Business Analytics	**Analysis of Factors Affecting Death Rate caused by Cancer** *(Jan-March'19)* • Data is on cancer incidences of different countries in the USA and checked for **multicollinearity** • Apart from many attributes, focus given on variables on economic factor and ethnicity. Method used is **multiple linear regression model** and all assumptions of **multivariate heteroskedastic robust regression** have been used here. • One by one, no of variable keeps inserted in the model and effect on **standard error, adjusted R squared** was calculated. • All chosen variables are **statistically significant** as in hypothesis testing; **p-value** comes very small. **Forecasting of NIFTY 50 Closing Points using ARIMA model and its application in Intra-Day Trading** *(March-Apr'19)* • Objective: Using **time series analysis technique** for our study and **ARIMA model**, **forecast** 10 days of NIFTY points and make profit • **Augmented Dickey-Fuller test** tells that data is not stationary. To make time series stationary, **differencing** and **deseasonalized** the data. • By ARIMA (1, 1, 10) model, **accuracy**: **70%.** Applied ARIMA (1, 1, 10) model because **AIC** value is least in this model as compare to others. • **ACF** and **PACF** is calculated in each model.
Market Research	**Analysis of Consumer Behaviour towards Adidas Footwear** *(Jan-Apr'19)* • **Research question** - Is price an important factor while purchasing footwear, Is variety a major concern while buying, Whether discount offers affect the sales and inclination of consumers towards purchasing. • Data collected from online survey (**pre-tested)** and personal interview by random sampling technique of all age group and sub-group. • Performed **parametric** and **non-parametric tests one tails** and **two tail test** in one sample, **cross tabulations** in **SPSS**
Data Mining	**Costa Rican Household Poverty Level Prediction** *(Aug-Nov'18)* • Objective: to predict the poverty level of different household so that benefit of various government must be given to right families • 143 columns and 9557 rows in train data, 142 columns and 23856 rows in test data. Train data variable reduce to 100 in data cleaning • Models used like random forest, CART model, multinomial logistic model and GBM and check the accuracy of each. • GBM comes as best suited model with **accuracy**:0.6819,**sensitivity**:0.5595,**specificity**:0.9708,**error**:0.1060,**precision**:0.5595,**recall**:0.5595
Decision Support Systems	**Designing a bank form in HTML and storing the data into MariaDB database** *(Jan-Apr'19)* • Designed **user friendly** & **dynamic DSS** to compare means of groups using one-way ANOVA method, leveraging **PHP** and **HTML** on server • Designed a Relational Database in MariaDB for managing student data & connected with Dashboard using PHP.

ACADEMIC AWARDS AND ACHIEVEMENTS

- Secured **All India Rank 2410** in GATE-2018 (Mechanical)
- Presented a paper on "CLEAN HYDROELECTRICITY: CHALLENGES AND ADVANCEMENTS" in MMMEC

ONLINE COURSE/CERTIFICATION

- Online course: **R Programming** A-Z™: R for Data Science with Real Exercises! (udemy)
- **Machine 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

POSITION OF RESPONSIBILITY

- Orientation Team Member in Counselling Service, IIT Kanpur