KAPIL K. DAYMA

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Academic Qualification

YEAR	DEGREE	INSTITUTE	CGPA/%
2016-Present	M.Tech (Industrial and Management Engineering)	Indian Institute of Technology, Kanpur	8.49*
2015	B.E. (Mechanical Engineering)	L.D. College of Engineering, Ahmedabad	7.69
2011	Class XII (Gujarat Board)	Vivekanand Higher Secondary School, Ahmedabad	84.20
2009	Class X (Gujarat Board)	Saraswati Vidhya Mandir, Ahmedabad	88.62

* *Up to second semester*

Professional Experiences

Intern at Magic9 Media and Analytics Pvt. Ltd.   *May-July'17*

Factors affecting Rate of change in Quality of Life over 10 years of villagers (i.e. from 2007 to 2017)

- The Prime objective was to validate the **Quality of Life in Rural India**, looking upon the rate of improvements based on the **Education offered to Women**, **Women Parity** and **Income**.
- Rigorous **survey** was conducted in two selected villages based on the **census data Analysis** and a comparison was made with the data collected as per the **quality of life indicators**.
- Statistical Analysis was done with the help of Excel and R, and possible interventions over past twenty years were identified; which could have been taken care of, for the village to meet the Quality of Life.

Intern at Gujarat State Electricity Corporation Ltd.   *June'14*

Improvement of Coal Handling System of Wanakbori Thermal Power Station

- Collected and Analyzed data of Coal Handling System and build model to calculate Coal Requirement.
- Suggested Technique to Improve Efficiency of Coal Handling System which has been designed for 300 tones/hour capacity and coal having 33000 KJ/Kg Calorific Value*.*

Academic Projects

Supervised and Unsupervised learning on European Soccer Database   *Jan-April'17*

- Carried out **preprocessing** (i.e. *checking missing values, outliers* etc.) on the dataset having **183978 observations** and **46 variables**.
- Performed **Clustering Analysis** to determine the class of the soccer player i.e. Defender, Midfielder, Centre back or Goalkeeper.
- Applied different **machine learning algorithm** (i.e. *SVM, Decision Tree, Random forest Algorithm*) to predict defender_line_class.
- Plotted **ROC** to check best fit model.

A Study of Factors Influencing Crime committed per person in North Carolina   *March-April'17*

- Carried out **Panel data Regression** using R as an analysis tool to study Factors influencing Crime committed per person.
- Used **Fixed effect Model**, **Random effect Model**, **Pooled model** and **Between Model**. compared results of models using *Hausman Test*, Best fit Model having ***adjusted R Square*** 0.8438
- Found that Crime committed per person would vary across Quarter as well as county and increase in 'Probability of arrest' and 'Probability of conviction' discourage the crime committed per person.

Predicting Airline Ticket Price using Statistical Regression Model   *Jan-March'17*

- Carried out *Multiple Linear and Nonlinear Regression* using R to Predict Airline Ticket Price.
- Average fare and Market shares were having most statistically significant impact on Airline Ticket Price.
- Calculated **Measure of Fit***,* **Correlation Matrix**, performed **Heteroskedasticity Test** and checked **Multicollinearity** using R. Best Model selected is having **adjusted R square 0.8149**.
- Baggage allowance, Fuel Price and customer service might introduce Omitted Variable Biased in the model.

Coursework and Skills

Relevant Courses	Data Mining and Knowledge Discovery | Statistical Modelling for Business Analytics | Probability and Statistics | Economic Analysis for Management | Introduction to Computing
Technical Skills	C | R | MS Office(Excel,Word,PowerPoint) | NX-Essentials for NX Designers (UNI Graphics)

Positions of Responsibility

- Elected as a **Senator,** *Student's Senate***,** Students' Gymkhana IIT Kanpur.   *2017-18*
- Member of **Rules and Procedure committee**, Students Senate.   *2017-18*
- Nominated **Member** of Institute *Senate Scholarships and Prizes Committee*.   *2017-18*
- Served as an **Orientation Team Member (OTM)** for *Counseling Services* during Post Graduate Winter Orientation 2016 and Summer Orientation 2017 at **IIT Kanpur**.   *2016-17*
- Member, *Hall Advisory Committee (HAC)*, Hall of Residence XI, IIT Kanpur.   *2016-17*
- **Member**, Organizing Committee, **Auto Dexterous** Event in GTU CENTRAL TECH-FEST.   *2015*
- **Member** of Robotics Team, Represented College at National Level Robotics Competition *ABU ROBOCON*.   *2013*

Awards and Extra-Curricular Activities

- Awarded **Central Sector Scheme of Scholarship** by **Ministry of Human Resources and Development** meant for **top 1000 students** of HSC examination conducted by State Examination Board.
- Participated in a **Trek** at Satopanth organized by *Adventure Sports Club*, IIT Kanpur.
- Participated in **Mini Marathon** Organized by *Games & Sports Council in 51st Inter IIT SportsMeet*.

Hobbies and Interests

- Cycling, Swimming, Wall Climbing, Trekking.
- Solving Rubik's Cube, Mirror Cube and Reading Science Magazines.