KUNAL KOTAK

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ACADEMIC QUALIFICATIONS

YEAR	DEGREE	INSTITUTE	PERFORMANCE
2019*	M.Tech. (Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	8.0*
2015	B.Tech. (Mechanical Engineering)	Pandit Deendayal Petroleum University(PDPU),Gandhinagar	79.00%
2011	Class XII, Gujarat Board	Silver Bells School, Palanpur	85.23%
2009	Class X, Gujarat Board	P.V. Modi School, Rajkot	80.15%

ACADEMIC PROJECTS

Credit Card Fraud Detection in R – Data Preprocessing, Data Modelling and Compairing Model Accuracy(Ongoing).-
Sampled the highly asymmetric data in a stratified way for pre-processing. Applying 3 Machine Learning models (K-Nearest Neighbor, Random Forest and Logistic Regression) and comparing their accuracy.

Automobile Mileage Exploratory Data Analysis in R.
Build regression models to predict the Miles Per Gallon(MPG) using 3 multivalued discrete and 5 continuous attributes. Compared Linear,Log-Linear,Log-Log Models by the values of adjusted R^2.

Vehicle Routing Problem : Analyzing drawbacks of various Heuristics
Formulated Travelling Salesmen Problem and Vehicle Routing Problem. Analyzed the limitations of Vehicle Routing Problem Heuristics.

Design and Development of Air Powered Engine.
Lead the team of 4.The project was fully funded by ORSP, SRP(Student Research Program) Department, PDPU.

INTERNSHIPS

Larsen & Toubro Power , Baroda.   *May'14-June'14*
- Designed Chemical Feed System by focusing mainly on Dosing System.
- Devised a mini project on sizing of LP Heater Drain Pump.
- Analyzed the Chemical feed system by studying requirements and availabilities.

Home for Mentally Retarded Children, Rajkot.   *June'12*
- Collaborated with NGO working for betterment of specially abled children.

POSITION OF RESPONSIBILITY

- Senior Executive , Academics and Research Cell
- Active member of Unnat Bharat Abhiyan, a Government of India Initiative
- Core member of ISHRAE Ahmedabad chapter(2014-15)
- Volunteer , Student Placement Office(SPO), IIT Kanpur (Dec 2017-Jan 2018)

COURSEWORK AND SKILLS

Relevant Courses	Data Mining and Knowledge Discovery	Statistical Modeling for Business Analytics |Operations Research	Design of Production Systems	Probability & Statistics	Introduction to Computing-Java	Computer Aided Decision Systems	Operations Management	
Technical Skills	R	Python |Numpy |Pandas |Matplotlib |scikit-learn	Java	HTML	PHP	MS Office	Solid Edge	

AWARDS AND ACHIVEMENTS

Academic	• **Paper Published :** Published a Paper Titled "Design and Development of Air Powered Reciprocating Two Stroke Engine" in "International Journal of Research and Scientific Innovation" (Volume II Issue XI)
Extra-Curricular	• Certified by Auto Factory (Garage One) in 2013 • A member of team that participated in workshop on "Fundamentals of Vehicle Dynamics" by American Society of Mechanical Engineering (ASME) Student Section • **Sponsorship:** For research project on "Design and Development of Air Powered Engine" by ORSP (Office of Research and Sponsored Programs),PDPU worth **Rs. 46,000**