

KUNAL JAIN

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ACADEMIC QUALIFICATIONS

YEAR	DEGREE	INSTITUTE	CPI/%
2016-Present	M. Tech. (Industrial and Management Engineering)	IIT Kanpur	6.76
2016	B.E. (Industrial and Production Engineering)	SGSITS ,Indore	7.19
2012	Class XII, CBSE	K.V., Shajapur	86.6%
2010	Class X,CBSE	K.V., Shajapur	9.0

AWARDS & ACHIEVEMENTS

Academics	<ul style="list-style-type: none">Secured AIR 14 in GATE 2016 from Production and Industrial (PI) stream.Recipient of Central Sector Scholarship Scheme (CSSS) from CBSE based on percentage in 12th board for 4 years from 2012-2016.Awarded 3 times by Jain Society for 10th, 12th and GATE results.
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PROFESSIONAL EXPERIENCE

SARDA GROUP OF COMPANIES, NASHIK

May'17- July'17

Title: Analysis of the Flow of Tendu Leaf along the Beedi Supply Chain

- Mapped the whole process in a **scientific manner** to look for points that can be optimized along the supply chain.
- Identified the **information gaps**, data collection problems, **Problems of unit conversions, accuracy issues** and the questions to be answered at every point of the supply chain to balance the material and further to calculate the wastage.
- Suggested the data that needs to be collected to arrive at a **stochastic model** to estimate the **conversion factors**.

CUMMINS TURBO TECHNOLOGIES, DEWAS

June'15

Title: Reduction of Cycle Time using Standard Work Combination Sheet(SWCS)

- Calculated **cycle time** of each machine for calculating annual output and efficiency of machines and operators.
- Plotted SWCS to find the **bottleneck** operations and recommended feasible changes for removing them.

PROJECTS UNDERTAKEN

A study of Relationship between Sales and Corresponding Advertising Expenditures: Time Series Approach

Apr'17

- Worked on Time Series data of 36 months which contained seasonality, trend and irregular components.
- Applied **SEA, Holt Winter's Exponential Smoothing** and **ARIMA Models** for forecasting the sales and corresponding advertising expenditure and compared them using **Correlogram**, performing **Ljung Box Test** and **Normality of residuals**.

Analysis of Factors Influencing Fatality Rate in US using OLS regression model

Feb'17

- Studied the impact of factors like availability of doctors, hospitals, per capita income, etc. on the fatality rate.
- Compared 5 subsequent models in **R** using various **statistical techniques** and figured out the best fit model.

Classification analysis on whether to send a direct mail piece to a customer

Feb'17-Apr'17

- Performed **data pre-processing** to obtain the clean data.
- Trained various models like **logistic regression, random forest** and **neural network** on the data.
- Estimated the **classification error** in each case and then classified the test data.

HINDUSTAN EQUIPMENTS PVT. LTD., INDORE

July'15 – May'16

Title: Improvement of Process Capability (Cpk) value of Grinding Machine in Machine shop

- Performed **Root Cause Analysis** on the factors responsible for affecting the Cpk value.
- Prioritized the target factors on the basis of **Pareto Principle** in order to assess their effect on Cpk.
- Deduced **optimum value** of the above target factors by varying them and monitoring the change in Cpk.
- Increased Cpk value from **1.35 to 1.48** after eliminating the factors that affect process capability.
- Recommended feasible changes which can be implemented on the machine in the future.

POSITIONS OF RESPONSIBILITY

Principal Security Officer, Antaragni

Oct'16

- Led a three tier team of Senior Security Officers and Security Officers. Strategically managed the distribution of work amongst them during the events and learned to coordinate patiently even in the tensed situations like crowd control.

Volunteer, Blood Donation Camp, Raktarpan

Jan'17

- Worked as part of a team to assist the blood donors by signing them in and out of the blood drive and also assisting the donors with anything they needed after they donated.

COURSEWORK & SKILLS

Relevant Courses	Operations Research for Management Probability & Statistics Design of Production Systems Introduction to Computing Operations Management Statistical Modelling for Business Analytics Data Mining and Knowledge Discovery Advanced Decision Models Managing Service Operations
Technical Skills	C R MS Office AutoCAD