

# Piyush Bajpai

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## Technical Skills

- Basic Python, Basic R, JavaScript, HTML, MATLAB
- Excel, PowerPoint
- Minitab, Weka, Origin

## Education

- M. Tech – Metallurgy
- IIT – Bombay – 2017 (9.71 CGPA)
- B. Tech – Metallurgy
- IIT – Kanpur – 2014 (7.4 CGPA)

## Courses Done

- Engineering Data Mining and Applications
- Introduction to Data Analytics – NPTEL course
- Modelling and analysis – MATLAB course

## Languages Known

- English, Hindi

## Current Project

### Digital analytics at Cognizant Solutions Limited

- Completed training of Google Analytics JavaScript and HTML as part of above exercise
- Currently undergoing training of Adobe analytics tool

## Relevant Projects

### Analysis of force experienced by tool during cutting cycles using R

- Visualized data through different samplings methods such as randomized samplings and grouped sampling using R
- Clustered the data using hierarchical clustering, K-means clustering based on contact between metal and tool into pre-contact, partial contact and complete contact
- Relevant cluster was selected, outliers were removed and regression was carried out using linear and quadratic models

## Industrial Experience

### Junior Manager at JSW Steel Limited Bellary

(Jul'14-May'15)

### Product Design & Quality Control Department

- Designed and stabilized 6 grades of NGO silicon steel as per customer requirements
- Analyzed data and executed CAPA for internal defect diversions to achieve better quality control
- Co-ordinated with Application engineer to handle product quality complaints at customer end
- Order placing, updating master data and monitoring in SAP-MM from production end till customer end

## Other Projects

### Decrease in diversion percentage due to seam line defects Part of six-sigma black belt project team

- Analyzed 6 months data of diverted CRCA grade coils for seam line defects using regression analysis
- Designed trial experiments to determine the probable causes for above defects in SMS, HSM and CRM
- Implemented required corrective actions to bring down defects diversion rate from 4.42% to 0.56%

### Effects of effluents being discharged by leather industry in Ganges in Kanpur

- Surveyed Kanpur Municipal Corporation, Water board and U.P Pollution Control Board on amount of effluents being discharged by tanneries and state of treatment plants being used to treat discharge
- Suggested steps to reduce the pollution level of river water without hampering the growth of industry

## Awards and Recognitions

- Cleared IIT-JEE 2010 with a rank of **2715** taken by more than 5,00,000 students
- Ranked **3<sup>rd</sup>** in Materials Science specialization and **5<sup>th</sup>** in MEMS Department among **60** students
- Recipient of **Integrated Scholarship** for students awarded by U.P Board