KARAN PANCHAL

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EDUCATION

MS in Engineering Management, University of North Carolina, Charlotte *May 2020*
Relevant courses: Decision making & Forecasting, Deterministic System Analysis, Engineering Experimental Design, Optimization, Game Theoretic and Cost estimating, Lean Six Sigma Practice and Project Management

Bachelor of Engineering in Production, Mumbai University *May 2017*
Relevant courses: Supply chain and logistic, Production & Operation Management, Operation Research

SKILLS & CERTIFICATIONS

Languages and Technologies: Python, SQL, SAS, Tableau, MS Power BI, MS Excel, Risk Analysis, ARIMA, Time series analysis, Project planning, ANOVA, Lean Tools, WMS, Root Cause Analysis, Machine Learning techniques

Certifications: Green belt sigma in Lean Six Sigma, Programming & Data Analysis using python language.

EXPERIENCE

Business Analyst Intern, Ross Stores Inc., South Carolina (MS SQL, Data Analysis & Validation, Power BI) *Aug.2019*
- Developed a stand-alone application for Warehouse management System which replaced the manual legacy process
- Ran SQL code to assess, clean, validate and analyze large datasets by removing duplicates and managing null values
- Coordinated with Business and Clients to understand the business requirements
- Curated deep-dive analytical dashboards to display the trends and behavior of existing warehouse system
- Achieved 72% efficiency compared to legacy system and was successfully deployed at all Ross DC's

Supply chain Analyst, Altima Hi-tech Pvt. Ltd. (Six Sigma, Data Analysis, Excel, SAS) *Jul.2018*
- Responsible for handling and managing procuring request for electrical components with vendors
- Collaborated with cross functional teams to deliver technical aspects of plant layout using 'LEAN' concepts
- Forecasted the demand and supply of products by applying regression techniques on warehouse data
- Optimized the product delivery by integrating quality control processes to achieve service excellence score
- Programmed and analyzed feedback data in excel to identify market challenges and opportunities

Operations Intern, Larsen and Toubro (Designing software, Excel, SAS) *Mar.2017*
- Designed the robot for picking and placing single to reduce the total cycle time of the process
- Executed the entire process in limited time frame and delivered with improved efficiency

PROJECTS

Forecasting and Marketing analysis of sales price of Housing Market (Machine Learning, Data Preprocessing, Python, Power BI) *Jan.2020*
- Developed a predictive model for forecasting the sales price of Washington DC housing market using Python
- Conducted end-to-end analysis that included data gathering and requirement specifications, analysis using statistical technique such as regression, decision trees, clustering and classifications algorithms to achieved maximum accuracy
- Power BI dashboard provided insights for descriptive analysis on the feature effective sales and was plugged into the application to help home finder based on housing record

Power Laws: Forecasting Energy Consumption (SAS, Data Analysis, SQL, Excel) *May.2019*
- Analyzed the real-world data of electric load and predicted load for future using Machine Learning, Regression, and Classification techniques. Applied data smoothening methods to normalize the data.
- Prepared reports by extracting, cleaning and merging data from different sources

Financial Analysis of Duke Energy and NextEra Energy (Data Analysis, Excel, Power BI) *Dec.2019*
- The objective of the project was to analyze and compare the financial ratios of two clean energy giants, NextEra Energy and Duke Energy and to determine and recommend suitable alternatives for improvement

ACTIVITIES

- Ranked in **top 10** for hourly load forecasting competition between 250 students of UNCC and USC. *2019*
- Teaching Assistant at Citizen Association for Child Rights (CACR) for computer applications