SNEHA ARCOT

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EDUCATION

M.S., Industrial Engineering | 3.63/4.00   *Jan 2019-Dec 2020*
San Jose State University, San Jose, CA
Course Work : Logistics in Supply Chain (using Python), Leading 6 sigma improvement projects, Decision models for sustainable development, Advanced Operations Research, Operations Planning and Control, System Simulation (ProModel), Design of Experiments, Analytics for Systems Engineering, Quality Assurance and Reliability
B.E., Production Engineering   *Aug 2011-July 2015*
University of Mumbai, Mumbai, India

SKILLS & CERTIFICATION

Application and Tools: SAP ECC/APO/BW, SPSS, Minitab, JMP, Anaplan
Solver: Gurobi Optimization, CPLEX
Programming: Python, R
Database: SQL, PL/SQL, Big Query
Visualization: Tableau, Power BI
Certification: Lean Six Sigma Green Belt

EXPERIENCE

SAN JOSE STATE UNIVERSITY, SAN JOSE, CA | *Instructional Student Assistant*   *Aug 2020-Dec 2020*
- Assisting with lecture proceedings and technical setup for ISE 251(Managing the Lean Enterprise Improvement Project)
- Evaluating Project write ups from standpoint of a client/project manager for ISE 195 A/B (Sr. Industrial Engineering Design)

ACCENTURE SOLUTIONS PVT LTD, MUMBAI, INDIA | *Application Development Analyst*   *Oct 2015-Oct 2018*
- Worked as a **Supply Planner** for **DuPont**
- Executed material planning and supply planning for internal and external demands
- Identified potential shortage in raw materials & supply planning and expedited drives to close shortage
- Coordinated cross-functional meetings and activities that drive engagement and alignment across teams
- Planned Safety Stock for raw material and finished products and simulated change with new Lead Time
- Worked as **SAP Consultant** for **BHP**
- Captured business requirements & realized in SAP, tested functionality in different environments and deployed
- Responsible for highly staked Freight and Logistics Management, Commodity Trading and Risk Management spaces
- Led team with transition from SAP R/3 to SAP HANA and conducted FIORI testing
- Created test scripts for performed Unit Testing, Integration Testing, User Acceptance Testing and Regression Testing
- Development and outlined Business requirements for enhancements
- Standardized existing process by adding reusable solutions and documented instructions for sustainment

GODREJ & BOYCE MFG. CO. LTD, MUMBAI, INDIA | *Intern*   *Nov 2014-Apr 2015*
- Implemented Efficient Design (as per ASME standards) for utilization of man hours and reduced associated process cost by 40%
- Conducted ABC analysis on various part of pressure vessels
- Assisted in implementing lean manufacturing tools like KANBAN system and kaizen and optimized using continuous process improvement
- Conducted Root Cause Analysis and Identified bottle neck processes and Updated KPIs & Metrics
- Assessed material utilization and reduced consumption by repurposing scrap
- Updated incoming material from various vendors in company's ERP system

BHABHA ATOMIC RESEARCH CENTRE, MUMBAI, INDIA | *Summer Intern*   *Jun 2013-Jul 2013*
- Reviewed product designed and constructed G-code for CNC laser cutting
- Built an Inventory Reviewing System to reflect accurate inventory levels
- Visualized and presented inventory data to various team leveraging Tableau
- Elaborated inventory data with different metrics w.r.t scrap and unused material using Excel

ACADEMIC PROJECTS

Single Period Fleet Lease Decision Making towards the Development of a low Carbon Supply Chain: *Jan 2020-May 2020*
 A Linear Programming Approach| *Master's project*
- Developed an LP to determine optimal mix of electric, hybrid and diesel trucks in a fleet which would help minimize effective carbon footprint
- The program was validated by performing a case study on FedEx fleet and was implemented on data extrapolated using R programming

- Created Tableau dashboard for data analysis and to track KPI measures

Operations Planning and Control for products at Vikings *Sep 2019-Dec 2019*
- Forecasted demand of multiple products for five weeks using time-series and causal forecasting methods
- Compared production cost of each products leveraging aggregate planning- level and chase policies to find most economic production approach
- Prepared an MRP and MPS report for products and sub-products deploying given BOM
- Created a production scheduling methodology. Simulated constructed model on ProModel verifying throughput

Simulation model-Optimizing Flow for a Distribution Center at MB Farms *Sep 2019-Dec 2019*
- Designed a ProModel simulation model to streamline operations in a Produce Cooler for refrigeration until shipping
- Experimented various scenarios and came up with a model ensuring maximum throughput and verified model

Network Design and Facility Design *Jan 2019-May 2019*
- Developed a python program to analyze and identify most cost-effective route for operations/deliveries incorporating logistics and warehouse capacity constraints with demand divisibility for 50 distribution centers and 5000 demand points
- Devised a python program to identify optimal plant locations quadratic assignment to minimize cost of internal operations

Sustainable Business Model *Jan 2019-May 2019*
- Identified and analyzed a business model to redirect recyclables and replicate circular economy in a city
- Confirmed a reduction of carbon emissions by 9% annually using "Sustainable Minds"

Six Sigma Implementation at a Food Industry *Jan 2019-May 2019*
- Improved service time using lean principles by data collection and performed post improvement verification
- Value Stream mapping and Statistical Hypothesis Testing was done to demonstrate improvement which confirmed 27% process improvement

CO-CURRICULUM
- Vice President: Indian Student Organization-SJSU *Jun 2020-Jun 2021*
- Mumbai Delivery Center Coordinator: Accenture CSR (Corporate Social Responsibility) *Oct 2016-Oct 2018*
- Vice Chairperson: SAE Fr. CRCE Collegiate Club *Aug 2014-Jun 2015*