



Akshatha Wuluvarana Ghanashyam Raj

Details

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NATIONALITY

Indian

DATE OF BIRTH

21/01/1994

Technical Skills

Microsoft Office Suite

Python

R

SQL

Tableau

Soft Skills

Ability to Work in a Team
Analytical Thinking
Customer Relationship
Management
Communication Skills
Effective Time Management

Languages

English

German

Kannada

Hindi

Profile

Resourceful and dedicated graduate with intern experience and relevant graduate coursework. Strong organizational and analytical abilities with proven successes managing multiple academic projects and case studies. Seeking opportunities to contribute my skills to the organization as well as shape my professional career.

Employment History

Software Engineer, Tech Mahindra, Bengaluru

AUGUST 2016 – AUGUST 2018

- Code Convergent Billing and Rating Codes for telecom services as per client requirement.
- Developed code templates to provide analytical insights to detect bottleneck issues to reduce potential issues.
- Maintained a source-code repository of information to support global network plans.
- Regular reporting of the key performance indicators by revision control of bonus offers and call plans including maintenance and revision of reports and price plans.
- Project planning of the main network plan so tracking and controlling changes can be efficiently done.
- Collaborated with cross-functional teams working on different plans, planned and executed services improving organization supply chain workforce and profitability.
- Test the network plans on development environment for various telecom services.
- Analyze billing procedures to identify opportunities for improvement.

Education

Master of Science in Operations Research and Business Analytics, Otto-von-Guericke Universität Magdeburg, Magdeburg

APRIL 2019 – PRESENT

- Thesis : Electric Vehicle Purchasing Behavior in Beijing, China
- Survey of stated preference of Beijing citizens was to be studied to understand what factors influence Electric vehicle choice.
- Predictive Analysis was conducted to analyze the Socioeconomics and Demographics, Purchase behavior and Car specific attributes in the survey using a logistic regression model.
- The developed model was further used to conduct a Market share analysis.

Bachelor of Engineering in Industrial Engineering and Management, JSS Academy of Technical Education, Bengaluru

AUGUST 2012 – JULY 2016

- Thesis: Implementation of E-Kanban to bridge the gap of information flow at the manufacturing plant of Cimtrix Systems (P) Ltd.
- Task at hand was to analyze the Distribution channels and Product flow in the company along with examining the problem of long lead times, misplaced materials and lack of coordination between the departments.
- Optimization was achieved through a new process flow and the network and cost analysis was evaluated.
- E-Kanban was introduced to optimize and streamline the information flow between the design department and other departments reflecting an increase of 3% profit and time saved by 5 days.

Internships and Projects

Project: Optimization of Lot Sizing Problem for Injection Molding Machines at Bayerische Motoren Werke GmbH (BMW), Magdeburg

OCTOBER 2020 – JANUARY 2021

- Generate a cost-efficient schedule with minimum setup cost and inventory cost.
- Developed a heuristic solution approach called Tabu Search using MS Excel and Python.
- Usage of visualization tool such as Gantt charts for scheduling the production of all parts on different machines.

Production Planning Intern, Bosch

JANUARY 2015 – FEBRUARY 2015

- Survey the Phasing Rejection Reduction of Fuel Injection Pump.
- Conduct visits to the shop floor to observe the production line and assembly of the pump.
- Identified processes suited for workflow optimization
- Coordinated between departments to facilitate a cohesive approach in the production process
- Report the rejection rate, analyze the production of the pump and examine the reason for rejection.

Case Studies

Magdeburg

MAY 2019 – MAY 2021

One-Month-Ahead Forecasts of Total US Retail Sales

Software Used: R, MS Excel, MS PowerPoint, MS Word

- Datasets: Monthly Retail Sales in Billion from January 2001 to December 2015.
- Determined the best forecasting model by using a system of forecasts(models).

Forecast the Effects of Global Warming on the City of Magdeburg

Software Used: R, MS Excel, MS PowerPoint, MS Word

- Datasets: The monthly data on Average Temperature, Total Rain and Total Sunshine along with Daily Rainfall and Sunshine from January 1989 to May 2019.
- The task was to use both, State Space Models and ARIMA Models in order to develop an appropriate Forecasting method.
- The PIVASE Framework used Analysis done on the Average Temperature and Daily rainfall datasets.

Supervised Learning for Predicting the Final Price of Each Home in the Dataset.

Software Used: Knime, MS Excel, MS PowerPoint, MS Word

- Datasets: Every aspect of residential homes in Ames.
- Target variable was Sales Price and the Prediction of the final price of each home to be done.
- Data Cleansing done by treating the missing values and outliers, usage of Linear Correlation to filter out the non-correlated data and a Linear and Polynomial Regression Model were developed to achieve the task.