

# ANIRUDH SUNDARESAN

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## EDUCATION

**Northeastern University, Boston, MA**

*Sep 2018 - Dec 2020*

Master of Science in Industrial Engineering, (GPA: 3.8/4.0)

**Focused coursework:** Data Warehousing and Business Intelligence, Probability and Statistics, Deterministic Operations Research, Data Mining, Data Management and Database Design

**R N S Institute of Technology, Bangalore, India**

*Aug 2014 - Jun 2018*

Bachelor of Engineering in Mechanical Engineering, (GPA: 7.3/10.0)

## PROFESSIONAL EXPERIENCE

**Operations Analyst, Wayfair LLC – Boston, MA**

*Jul 2019 - Dec 2019*

- Automated a process using Excel macros, VBA programming and SQL scripting saving my division over 50 working hours per month.
- Carried out ad hoc requests to derive KPIs by building SQL queries to identify sales metrics such as avg conversion rate and customer turnover rate.
- Resolved multi-box imbalance issue by tracking and mapping the box quantities using ERP software and saving return-to-supplier cost worth \$1M.
- Tracked and reported inventory turnover, item fill rate and inventory accuracy by automating dashboards on Tableau boosting work efficiency by 12%.
- Proposed inventory allocation based on forecast, historical sales, and safety stock for top selling product line for 10 suppliers worth \$500K.
- Implemented Random Forest & Linear Regression models and reduced stationarity to forecast sales in R, decreasing the RMSE by 95%
- Built an algorithm on Python to identify sales trends, top selling products, and evaluate product dimensions resulting in increased revenue generation from new businesses by 40%.

**Business Analyst, BOSCH LTD – Bangalore, India**

*Jan 2018 – Jun 2018*

- Analyzed client's business requirements and processes through document analysis, workshops, and workflow analysis to build a strong business model.
- Developed Excel automation tools to help in issues and defect tracking resulting in increase of process efficiency by 30%.
- Formulated a new optimized process flow by interchanging machining operations which reduced process lead time by 10%.
- Implemented material changes, process development and validation tests on precision machined components to improve product quality by 80%.
- Managed CRM database, including troubleshooting, maintenance, updates, and report generation.
- Partnered with logistics team to create a comprehensive inventory tracking system reducing storage of excess inventory by 30%.

**Residential Student Proctor, Northeastern University**

*Dec 2019 - Sep 2020*

- Administered access control of residence halls utilizing a computerized electronic access control system and various alarms.
- Assisted residents and parents, maintained a special access list, and notified public safety of any security breaches or emergency issues.

## ACADEMIC PROJECTS

**Analysis of Opioid Drug Utilization – Microsoft SQL Server, PostgreSQL, MS Visual Studio, Talend, Tableau**

*Spring 2020*

- Automated ETL processes, by building a data pipeline on MS Visual Studio making it easier to wrangle data and reducing time by ~40%.
- Designed and developed ETL packages using SQL Server Integration Services (SSIS) to load data from SQL server, flat files to SQL Server database through Bulk Insert and BCP for Enterprise Data Warehouse.
- Created T-SQL scripts and complex stored procedures for data validation and implemented error handling in SSIS using row redirects and check points.
- Developed data mappings between source systems and warehouse components and performed data profiling using Talend.
- Added Slowly Changing Dimensions (SCD) to Drug list table to accommodate addition, deletion and update of drug information.

**Sentiment Analysis on hate crime – R, Power BI**

*Spring 2020*

- Preprocessed dataset using corpus, reduced words to root form using stemming, and performed tokenizing using document term matrix in R.
- Applied Naïve Bayes classifier to predict outcome and optimized it through Laplace transformation to visualize frequency of words.

**Lego Aerospace Enterprise Simulation**

*Fall 2020*

- Organized inventory and standardized sequence of ordering using lean tools such as 5S and Visual Control.
- Minimized touch-time at each station by redesigning airplane to reduce part count by 10 using DFMA and Lean Engineering.
- Established a single piece flow, resulting in optimized inventory handling process.
- Implemented pull inventory and production control system using tools such as Kanban resulting in highly efficient process.

**Grade Manager Tool – MS Excel**

*Summer 2020*

- Consolidated and combined student grades from multiple class section roster grade books.
- Created a user form in Excel VBA with various functionalities such as initialization, synchronization, backup of current files, and update columns.

**Advertising Strategy on Social Media - Oracle 11g**

*Spring 2019*

- Input data posted on 4 different social media platforms into Oracle via an ETL process.
- Defined a strategy to ingest data into target tables using stored procedures, views, and triggers.
- Designed and modeled ER Diagram (normalized to 3NF) between 12 different tables and created a database with more than 10,000 entries.
- Executed SQL queries including different Joins, Triggers and Subqueries to report consolidated revenues, post-performance, user engagement and revenue generation / click.

## TECHNICAL SKILLS

**Programming Languages:** Python, R, VBA Programming

**Data Visualization:** Tableau, Power BI, Microsoft Excel, Looker

**Databases:** Microsoft SQL Server, Oracle, MySQL

**Other Competencies & tools:** AWS, ER Studio, Agile

## LEADERSHIP ACHIEVEMENTS

**Diabetes awareness program - Guinness World Records – Volunteer**

*Feb 2017*

- Led a team of individuals in spreading Diabetes Awareness at multiple venues at events organized by Rotary International District 3190 and Samatvam in Karnataka, India and got accredited by Guinness World Records.