

# Varun Lobo

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A data driven professional with over 10 yrs. experience in the automotive industry. Highly skilled in gathering, organizing, analyzing & visualizing data from multiple sources to tell a compelling story. I am passionate about turning data into insights.

## Education

Post Graduate Program in Data Science & Machine Learning – IIT Roorkee	Oct 2022
M.S – Mechanical Engineering, MS&T, Rolla, MO (GPA: 4.0/4.0)	Aug 2012
B.S – Mechanical Engineering, Mumbai University (GPA: 4.0/4.0)	June 2008

## Technical Skills:

• PostgreSQL / MySQL	• Tableau, Power BI	• Excel(VBA)	• R
• Python (scikit-learn)	• Git/ Github	• BigQuery	• Confluence
• Scrum (Agile)	• Matplotlib, Seaborn	• SQLite3	• Data Modeling
• Jira	• Statistical Modelling	• A/B Testing	• ML – Supervised, unsupervised, classification

## Certifications

Certified Scrum Product Owner (CSPO) – Scrum Alliance  
Professional Certificate in Python Programming – Georgia Tech  
Machine Learning Specialization – DeepLearning.AI  
Google Data Analytics Professional Certifications – Google Career Certificates

## Projects

- Created dashboards using PowerBI and Tableau to visualize manufacturing process & quality data. This led to a real-time shopfloor visibility to leadership and increased rate of response.
- Implemented Random Forest supervised machine learning algorithm to improve accuracy in prediction of final products design critical feature, leading to a 28% reduced scrap rate and batch rejections.
- Implemented unsupervised ML algorithm called Principal Component Analysis (PCA) for dimensionality reduction and visualization. I was successfully able to reduce 30 feature variables into 2 principal components while retaining 70% of variance from the original dataset.

## Experience

**Magna Powertrain Inc. – Project Manager** 2022 – Present

- Managed projects through all the stages of development until product is released for production.
- Created automated reports using Excel VBA on business financials between sister companies for leadership reviews.

**Tenneco Inc. – Product Owner (Customer Applications)** 2018 – 2022

- Analyze, document, and validate business requirements from business users and function specification requirements using interviews, document analysis, task and workflow analysis.
- Acted as voice-of-customer, i.e., a liaison between business and system areas.
- Developed, managed, and maintained data, KPIs and processes for the manufacturing group and its partners, ensuring reliability, integrity, and accuracy of data.
- Built, managed, and maintained backlogs and open tasks to focus on important milestone and project delivery.
- Analyzed complex business problems using data from internal and external sources to provide insight to decision-makers

**Altair Inc. – Development Engineer** 2014-2018

- Automate non-value-added tasks and data collection for dashboards in collaboration with IT
- Responsible for all report generation, dashboards creation and escalation to leadership.

**Caterpillar Inc – Digital and Analytics Engineer** 2012-2014

- Performed analysis for projects with impact on and risk to customer service or revenue generation
- Automated reports using excel. Summarized & reported engine performance data to cross functional team such as sales, senior leadership, and component engineering teams.
- Used SQL to collect & analyze data from various database and summarized findings for weekly reporting.

## Awards & Recognition

Missouri S&T, IEEE Green Technology conference - Best Paper Award  
Missouri S&T, Mechanical & Aerospace Engineering - Department Fellowship  
Recognition for Excellence, Commitment & Teamwork - Large Power Systems Division  
2017 Ford – New product launch (NPI) recognition award