Varun Lobo

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A data driven professional with over 10 yrs. experience in engineering. I provide actionable insights using existing data that supports business, process & quality improvements. 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:

- MS Office (excel vba)
- R (tidyverse)
- Scrum (Agile)
- Python (scikit-learn, tensorflow, keras)
- Tableau, Power BI
- Git/ Github
- Matplotlib, Seaborn
- Statistical Modelling
- Postgresql
- BigQuery
- SQLite3
- A/B Testing
- Jira
- Confluence
- Data Modeling
- 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 (all projects available in Github repositories)

- 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.
- Implemented supervised ML algorithms (Decision Trees, SVM, Logistic Regression) using Scikit-Learn in Python. Deployed these models online using using Streamlit cloud.
- Created multiple PowerBI dashboards with data downloaded from Kaggle.
- Implemented ensemble machine learning algorithms such as XGBoost & Random Forest for classification problems.

Experience

Magna Powertrain Inc. – *Project Manager*   2022 – Present
- Managed projects through all the stages of development until product is released for production.
- Maintained and published program timelines for executives and stakeholders' key meetings.

Tenneco Inc. – *Product Owner (Customer Applications)*   2018 – 2022
- Acted as the voice of the customer within the organization to help achieve desired product goals and milestones.
- Built, managed, and maintained backlogs and open tasks to focus on important milestone and project delivery.
- Acted as a liaison between customer and engineer team to clearly define product requirements, collaborate on engineering solutions, and clarify desired outcome to help increase customer experience.
- Worked closely with customer to review and define 'definition of done' (DOD) for ongoing tasks.

Altair Inc. – *Development Engineer*   2014-2018
- Created test reports for all vehicle testing and bench development.
- Responsible for all report generation, dashboards creation and escalation to leadership.

Caterpillar Inc – *Digital and Analytics Engineer*   2012-2014
- 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.
- Implemented algorithm to monitor & detect over fueling of fuel injectors in real time. Saved over $50,000 by reducing engine repairs & downtime.

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