

Vipul Satone

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Educational Qualification

Visvesvaraya National Institute of Technology, Nagpur (NIT-Nagpur)

Bachelor of Technology (B.Tech.) in Mechanical Engineering(Aug-2010 - May-2014)

- Cumulative GPA: 8.80/10;

Work Experience

Thermax Ltd.

- Joined as GET (Graduate Engineer Trainee) with **Thermax Ltd.** (Largest manufacturer of Boilers and Chillers in India) from 1 August 2014. (More than 2 years of experience)
- As a Proposal engineer in Thermax Ltd. my job includes cost analysis, estimating and pricing, predicting and analyzing the demand of spares, customer and vendor visit.

Projects and Internships

1. Prediction of House prices. (Coursera)

- House prices were predicted using k-nearest neighbors and regression.
- Furthermore, Regularization techniques like LASSO and Ridge regression were explored and modeled.

2. Identification of Loyal customers for a retail conglomerate. (ETLHIVE)

- On the basis of data collected over weeks customers were segmented into different loyalty segments.
- Furthermore, most profit delivering segments of customers were identified. A strategy to increase the profits of the retailer was suggested.

3. Santander Product Recommendation (Kaggle)

- Predicted products which existing customers of a bank will use in the next month based on their past behavior and that of similar customers.
- Used user-user collaborative filtering. Recommender system was modeled using R.

4. Sentiment analysis for 2017 UP Election based on tweets.

- Using Twitter API Tweets were downloaded and analyzed for sentiments of Twitter users for different Political parties and leaders.

5. CSIR-Central Mechanical Engineering Research Institute, Durgapur

- Optimization of Shell and Tube heat exchanger design using MATLAB for mathematical model simulation.
- Another project on blood flow simulation for MDT (Magnetic drug targeting). This included Modeling in Solidworks, meshing in Gambit and flow simulation using Fluent.

6. Lloyd Steel Ltd. (now Uttam Galva Steel), Wardha

- During this short period I worked with production and maintenance team in increasing efficiency.

Certifications

Statistical Learning (Stanford Online)

The main aim of this course was to explain the core Mathematics working in the background of the Machine learning techniques.

- **Machine Learning: Regression (Coursera Course Certificates)**
This course imparted hands on experience in fundamental regression concepts, including implementing and applying regression algorithm to real world data. A project on prediction of house prices was done with this project.
- **Machine Learning Foundation: A Case Study Approach Coursera Course Certificates)**
In this course different machine learning techniques like Regression, Classification, Clustering, deep learning were introduced.
- **Data Management and Visualization (Coursera Course Certificates)**
With this course I learned to use Python to manage and visualize my data, including how to deal with missing data, variable groups and graphs.
- **Optimization Methods in Business Analytics (edX Verified Certificate)**
With primary focus on optimization modeling this course introduced theory, algorithms, and applications of optimization. Linear, non-linear and integer programming was taught along with other basic concepts like sensitivity analysis.
- **Introduction to Python for Data Science (edX Verified Certificate)**
Introductory course for Python.
- **Introduction to R for Data Science (edX Verified Certificate)**
Introductory course for R language.
- **ETLhive certified Data Science Training (ETLHIVE)**
Used R programming to model various Machine learning techniques. Currently working on a case study to identifying loyal customers for a conglomerate.
- **Introduction to data analytics (NPTEL online certification)**
This course presented with wide range of data analytics techniques and is structured around the broad contours of the different types of data analytics, namely, descriptive, inferential, predictive and prescriptive analytics.

Conferences

V. Satone, N. Chahare, and P. Padole, "Design of pedal operated behda cracking machine using flywheel motor," in Association for Machines and Mechanisms' Industrial Problems on Machines and Mechanisms (IPRoMM), Nagpur, India, Dec 2016.

Skills

- **Programming Languages**—MATLAB, C, Python, R, Julia.
- **Softwares**- Weka, Minitab, Solidworks, Solid Edge, ANSYS-Fluent, Tecplot, Tableau.
- **General** -Proficient in Microsoft Word, Excel, Outlook, PowerPoint.

Honors and achievements

- Awarded **second prize** for publishing best paper in IPROMM 16 conference (2016).
- Bagged 1st position in the district in 'Maharashtra Talent Search Exam' (in 2009 and got a scholarship for same) and 68th position in 'Vidarbha Talent Search Exam' (2009).
- Qualified among the top 5% in GATE 2014 (Graduate Aptitude Test in Engineering) from Mechanical Engineering stream.

Activities and hobbies

- Hobbies include reading books and participating in **Kaggle** competitions.
- Active sportsman mostly played Football and Kho-Kho. Loves doing Yoga.
- Passed first level (A1) exam of German language proficiency by Goethe Institute (2012).