

# Vaibhav Sharma

## Developer

Dedicated and inquisitive professional with experience in quick learning capability. Passionate about simplifying my work using script automations and keen to use my analytics solution building exposure in enabling business transformation and processes. Having good exposure with Perl and Python scripting. Worked on wide range of tools like Jenkins , Perforce etc along with C++, Linux.

## Personal Info

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**Date of birth**  
1992-08-12

**GitHub**  
<https://github.com/vaebhav>

**StackOverflow**  
<https://stackoverflow.com/users/9108912/vaibhav-sharma>

**LinkedIn**  
<https://www.linkedin.com/in/vaibhav-sharma-280781136/>

## Skills

Python	●●●●○
SQL	●●●●○
C++	●●●●○
Teradata	●●●●○
Web Scraping	●●●●○
Problem Solving	●●●●○
Excel	●●●●○
Perl	●●●●○
Machine Learning	●●●○○

## Experience

- 2017-07 - present
- ### Healthcare Developer
- Tata Consultancy Services  
Cardinal Health  
3PL services help mitigate risk inherent with distribution and logistics  
3PL is the leading pro-vider of specialty drugs and spans a wide range of businesses and industries.
- Achievements and Tasks
- Design/Develop new enhancements in Inbound order channel based on changes in regulations/client requirements in python.
  - Generation of different Data Feeds based on EDI for various requirements from BA (python and shell) and setup of scheduled jobs
  - Enhance existing Suspicious Order Management (SOM) modules written in python.
  - Liaise between the Client Implementation Team, to setup datafeeds and their schedule changes etc.
  - Developed a script (Python) to automate COAP template in excel, populating data from various sources
  - Developed a script (Python) to automate the monitoring of supply chain management daily feed to different customers.
  - Developed a script (Python) to automate the creation of Modified objects in an excel for report auditing.
  - Developed a script (Python) to automate the data feed reconcile report improving value optimisation and redundancy checks by 30%
- 2016-09 - 2017-04
- ### BFS Developer
- Tata Consultancy Services  
Morgan Stanley  
TAM program concentrates on preventing unauthorised access to production environments and sensitive data through a combination of changes to departmental procedures
- Achievements and Tasks
- Interact with the ITSO for DBAP under the databases owned by the GRN, across 3 plants - Sybase, DB2, MSSQL covering over WM and IM Department of the Firm
  - Maintaining a self-housed List for maintaining DBAP adoption Status for each GRN and refreshing it on a monthly basis , inspecting and analysing the data quality
  - Migrate existing TAM Modules to Python from Perl
  - Reporting of progress both weekly and monthly basis on projects spread across risk themed projects to the client
  - Developed a script (Python, Perl) to automate the refreshing of Database List.
  - Developed a script (Python, Perl) to automate the commands for role mapping for databases.
- 2015-07 - 2016-08
- ### BFS Developer
- Tata Consultancy Services  
Morgan Stanley  
MAC Application under Securitised Products Pricing, Risk, and Analytic System focused mainly on mortgage/ABS/CMBS/CLO desks and supporting grid-based distributed monte-carlo analysis. Calculation engine interfaces expose service features/analytics.
- Achievements and Tasks
- Responsible for migrating Rogue Wave Instances (C++) on varies libraries used under the MAC and MACDDI Application and fix compile time errors , along with scheduling jobs using Autosys
  - Compile the migrated the libraries using Premake.
  - Test various functionalities of the MAC/MACDDI Application. Also fix bugs for performance tuning and functionality changes
  - Developed various scripts to Dist various libraries MACDDI Application using perl and other process as well.
  - Played a vital role in setting up the Train jobs under MACDDI and MAC using Jenkins.
  - Fixed a critical bug related to a functionality of the MAC Application

## Education

- 2010-07 - 2014-07
- ### Graduation
- RGPV University  
B.E (Electronics and Communication)  
CGPA - 6.9
- 2009-05 - 2010-05
- ### HSC
- Bhavan's Prominent School, Indore  
Score - 69 %
- 2008-05 - 2009-05
- ### SSC
- Bhavan's Prominent School, Indore  
Score - 69 %

## Machine Learning Projects

### Predicting House Prices in California City

Built the model which can predict the price of the house based on different attributes provided in the data. Derived the new attributes from the given ones and other factors related to city. Used by Customers to estimate the house prices in different areas of city based on their needs.

Technique used-: Linear Regression

Model Validation-: R-Square, Adjusted R-Square, F-test,Residual metrics, Normality check and Heteroskedasticity check

Tools Used-: Python (Pandas,Numpy,Sklearn,Scipy etc)

### Credit Risk Model for Probability Default

Developed a model to predict whether the customer will default payment based on its previous behaviour. A dataset for Taiwan customers with information of past 6 months credit history was used for the model.

Technique Used -: Logistic Regression

Tool Used -: Python (Pandas,Numpy,Sklearn,Scipy etc)

Analysis -: Data exploration, Outlier Treatment, Missing value treatment, Univariate & Bivariate analysis, Multicollinearity check, Variable reduction using Information Value

Model Validation -: Goodness of Fit test, Concordance Test, Confusion Matrix, ROC Curve, Gini Coefficient

### Cluster a hypermarket loyalty customers basis their product buying behaviour

Divided the customers of a hyper market into groups based on their shopping behavior to real-ize their shopping mission using RPM analysis and then clustering customers into groups. These groups are used by store to provide offers and increase the variety of products for their customers\_

Technique Used -: Clustering using K-means(Unsupervised learning)

Tool Used -: Python (Pandas,Numpy,Sklearn,Scipy etc)

Analysis -: Data Standardisation, Outlier treatment, Missing value treatment, identify the right number of clusters, Sillhouette Analysis

### Recommendation System

Developed a recommender based system to predict movie recommendations based on two similarities - cosine and pearsonr. Model is further divided into Item - Item based and User-User based collaborative filtering. MovieLens dataset was used for the model with 862 unique customers with 1263 unique movies

Technique Used -: Collaborative Filtering

Tool Used -: Python (Pandas,Numpy,Sklearn,Scipy etc)

## Achievements

- Received Outstanding Performer on the spot award and client appreciations for various automations in the project
- Microsoft - DAT210x (Python for Data Science) Certification from edx
- Coursera certificate for Python
- Internal TCS certifications acquired for both Perl and Python till E2 level Internal
- Internal TCS certifications acquired for Teradata till EI level

## Interests

Table Tennis

Gaming

Driving