# Vaibhav Shanbhag

1-201-234-7459 | vshanbha@stevens.edu | https://vaibz96.github.io/Resume_portfolio/ | https://public.tableau.com/profile/vs96#!

## EDUCATION

**Stevens Institute of Technology, Hoboken, NJ** **Expected May 2020**
**Master of Science in Information Systems, GPA: 3.75/ 4.00**

**Xavier Institute of Technology, Mumbai University, India** **May 2018**
**Bachelor of Engineering in Information Technology, GPA: 3.00/ 4.00**

## RELEVANT COURSE WORK

Web Mining, Database Management System, Big Data Technologies, Data Mining and Knowledge Discovery

## TECHNICAL SKILLS

| | |
|---|---|
| **Languages** | Python, JavaScript, Bash, R, HTML, CSS, Bootstrap, DOM, RESTful APIs |
| **Libraries** | NumPy, Pandas, SciPy, Matplotlib, Seaborn |
| **Frameworks** | Selenium, Django, Node.js |
| **Database** | PostgreSQL, MongoDB, Cassandra |
| **Tools** | Microsoft Suite, Tableau, Apache Spark, Hadoop |
| **Cloud Technologies** | AWS - S3, Route53, EC2, Redshift, Lambda, Athena |
| **Certifications** | Data Engineer: Mastering the Concepts, Data Science Foundation, Data Ingestion with Python |

## WORK EXPERIENCE

**Software Engineering Intern, NYC Sports LLC/ PlayBook** **Sept 2019 – May 2020**
***Playbook is a Sports Management start-up specialized in providing sports management software as service***

- Implement MVT architecture in developing web application with help of Django framework
- Engage in software development life cycle (SDLC) of project in python based environment
- Manage EC2, Route 53, S3 services on AWS cloud platform for monitoring company landing page
- Collaborate with QA engineer and senior software developer to fix bugs in production-based websites
- Design, develop, test, enhance and maintain multiple web applications within the Django project for various clients
- Generate and configure Bitnami SSL scripts for word-press website hosted on AWS EC2 instance
- Collaborate with internal teams to convert end user feedback into meaningful and improved solutions
- Take part in debugging and troubleshooting programming related issues
- Deploy web application using the Linux server and git CLI

## ACADEMIC PROJECTS

**Data Mining on Chicago crime rate in R language**

- Studied data mining algorithms, analyzed and modeled crime data of Chicago to predict criminal ward number
- Executed unsupervised learning (k-means) algorithm to cluster data into optimal number of clusters
- Predicted ward number based on IUCR, arrest and location coordinates data by applying C50 decision tree, KNN and SVM

**Eve-online: Social Sentiment Analysis and Visualization**

- Filtered research data consisting of 1.7 million records to analyze the sentiment of game users on massively multiplayer game platform using SQL stored procedure and presented in Excel
- Implemented dashboards in Tableau for dynamic visualization of various emotions between users over 6 years span
- Presented report on business variations leveraging statistical result for better software upgrade decisions

**Cafeteria Review analysis**

- Analyzed yelp data to conduct review analysis of current cafeteria business in New York city for improving cafeteria amenities
- Completed data collection using Python web scraping technique and cleaned it to remove anomalies and narrowed it for modeling
- Performed statistical analysis and modeling on whole data-set to evaluate customer retention rate based on customer reviews

**Exploratory Data Analysis of Summer Olympics Data**

- Performed Exploratory Data Analysis on approximately 2 million Olympics data set from year 1896 to 2016 to find hidden patterns and meaningful insights using NumPy and pandas
- Normalized the data to perform Pareto analysis, calculate competitive index among the users and visualized the results using seaborn, matplotlib to create more attractive and informative statistical graphics
- Inferred that economic growth, greater happiness index and sports awareness can play major role to aid Olympic performance all over the world