**Nachiket Madhav Paranjape**

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**GitHub –** <https://github.com/nachiketmparanjape> **LinkedIn** – <https://www.linkedin.com/in/nachiketmparanjape>

**Skills**

**Languages –** Python (numpy, scipy, scikit learn, pandas, seaborn, requests, sqlite), R, SAS, SQL, MATLAB, HTML 5, C

**Software – Linux, Windows,** MS Excel, Tableau, git, MS Project, MS Access, Google Analytics, Adobe Illustrator, Eclipse IDE

**Professional Experience**

**Intern,** *Appropriate Projects India Pvt Ltd* May 2013 – Dec 2013

* Designed a database to store data of customers and vendors thereby constructing a robust foundation to analyse the data
* Identified business trends from the customers’ data and proposed probable strategies to depending on the different trends
* Generated visualizations and interactive dashboards to help managers with decision process (MS Excel, Tableau)

**Projects**

**Grade Master – Grading Software,** *University at Buffalo* Jan 2015 – May 2015

* Designed end-to-end software with back-end database to collect, handle and process data of students’ scores
* Automated grading with flexibility in grading patterns (linear, curved, custom) as well as weights given to different tests
* Functionalized the software to predict grades using regression analysis and send warning emails to low-scoring students
* Created visualizations to depict statistics such as grade distribution, grade projections, scoring trends

**Predictive analysis of weather data** May 2016 – Jun 2016

* Extracted real-time weather data using the forecast.io API; created a database and loaded the extracted data to it
* Performed queries, created different datasets to visualize, summarise and analyse temp and precipitation data
* Tested the correlation between temperature and precipitation; predicted missing precipitation data using regression

**Gender prediction using weight data** May 2016 – Jun 2016

* Extracted and cleaned online data set with data of a people’s gender, actual weight and ideal weight; loaded it to dataframe
* Employed 5-fold cross validation to divide the data and trained a naïve Bayes model to predict gender from weight data
* Validated the resulting model resulting in a mean accuracy of 92.3% using the respective test data

**Elections’ Analysis (2012 Presidential Elections – US)** Jul 2015 – Aug 2015

* Scraped Pre-election Polls’ (2012) data from HuffPost Pollster (requests) and analyzed it using Python data analysis tools
* Extracted, transformed and loaded (ETL) the data in pandas data frame, performed descriptive analysis to visualize trends
* Visualized the trend of voters’ sentiment over time, estimated bias of sponsored polls, effects of debates on the polls etc.

**Stock Market Analysis** May 2015 – Jun 2015

* Performed time-series analysis (ARIMA) on one year of online stock data loaded in a data frame to gain investment insights
* Analyzed data to compute daily returns, moving averages, to correlate different stocks’ daily closing prices, returns etc.
* Estimated value at risk using quantiles and Monte Carlo method e.g. 1.5% daily loss with 95% confidence for Apple Shares

**Music Store Sales Planner** Apr 2016 – May 2016

* Performed complex queries using SQL on a music store database to extract data for further analysis and visualizations
* Analyzed store-level as well as global data to gain insight on the sales patterns over time and locations
* Proposed analyses to improve sales by 15% in short term by making suggestions for marketing and inventory optimization

**Education**

**Master of Science in Chemical Engineering,** University at Buffalo **GPA: 3.79/4.00** Jul 2016

Relevant Coursework:Mathematics and Computation, Introduction to Python and Data Structures

**Bachelor of Technology in Chemical Engineering,** University of Pune **GPA: 8.98/10.00** May 2014

Relevant Coursework: Introduction to Computer Science, Data Structures and Algorithms

**Online Coursework –**

**Python:** Data Science (Thinkful), Introduction to Python (Codecademy), Python for Data Analysis and Visualization (Udemy)

**R:** Introduction to R Programming (edX – Microsoft), Explore Statistics with R (edX – Karolinska Institutet)

**SQL:** Learn SQL, SQL: Table Transformations, SQL: Analysing Business Metrics (Codecademy)

**Leadership Experience** – **1.** Chemical Engineering Students Association, VIT-Pune, VP of 'Industrial Interaction’