

Siddhartha Pachhai

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Summary: Highly-driven Master of Business and Science (MBS) degree student in Analytics, Informatics and Data Science; Bachelor of Arts degree in Business Economic. Green card holder and authorized to work in the United States.

Education: * Master of Business and Science in Analytics, Rutgers University, New Brunswick, New Jersey (in progress) * Bachelor of Arts in Business Economics (with Honors), Lancaster University UK/India

PROFESSIONAL EXPERIENCE :

Volunteer Data Analyst/Statistician, Medicins Sans Frontiers, New York, NY **Sep 2018 to Present**

- Worked with the HR department to analyze their records and find trends and evaluate the effectiveness of their efforts.
- Collected and clean data from multiple internal sources, creating a master file containing all datasets, cleaning each file from each internal source. Using tools such as python, open refine and text analysis algorithms(fuzzy search, KNN) to find duplicates and clean textual data.
- Using visual representation and using Pandas(Python), Tidy verse(R) and MS Excel to get summaries and visualizations of the data.
- Performing Descriptive and Prescriptive analysis, using the data to get answers for business questions. Analysis involved univariate analysis, finding gas in the data and evaluating missing instances. Prescribed possible actions to take as future steps for the analysis in group meetings with senior HR staff members.

Data Analyst/Researcher Armored Knight Group, Somerset NJ. **May 2018 to Sep 2018**

- Financial Research
 - Researched Crypto Currency & Stock Markets to find out and test automated trading strategies and create metrics for buy/sell indicators. Utilized numerous algorithmic techniques to get metrics and strategies, which include Neural Networks(Python: Tensor Flow, SkLearn, Keras), and Time Series Forecasting(ARIMA).
 - Researched the usefulness of sentiment analysis (natural language processing) on finding out the effect of sentiment to Crypto-Currencies(Bitcoin) prices.
- Real Estate Research
 - Used API's from Zillow, Google Maps, and Map-quest to find information on properties and create a database.

- Automated the process of finding information from PDF reports of property sale (County Sheriff Sales), to save time, using Python libraries.
- Made informational decks (PowerPoints) for AWS, Azure, MATLAB, VBA and Cloud Computing

Data Analyst/Researcher Intern at Young Innovations, Kathmandu. Aug 2016 to Dec 2016

- Collected and cleaned data from online data repositories, using tools such as Open Refine and MS Excel.
- Using SQL and Excel to breakdown the data, found answers to the business questions that were asked by Team Leaders.
- Analyzed Zendesk (CRM Tool) issues and Company Product (Aid Stream) data to identify improvement points, which was discussed with Manager and team to generate material for enhancing user experience.
- Created reports of my findings, which was used by Team Leaders to create blog articles in Medium.
- Worked with software engineers to test the product for possible bugs before deployment.
- Helped create a user guide for the product that was uploaded to the companies GitHub page.

PROJECTS:

Externship Project: Rutgers Students Affairs

- Cleaned and combined datasets using python (Pandas) and data wrangling techniques.
- Used Tableau and visualization libraries in Python to create power points to answer the business questions proposed by student's affair.
- Used R, to create regression models to explain correlation between variables.

Women's tennis logistic regression (Rutgers Class Project)

- Cleaned and merged different data tables using SQL type querying using Python and R.
- Aggregating data in reports using descriptive statistics, ANOVA tests and Correlation analysis to ensure the quality of data.
- Used Machine Learning and Statistical techniques to identify best model for predicting tennis matches.

Museum of modern art (Rutgers Class Project)

- Applied programming techniques to build a website that displayed statistics and information for a data set, which had information on the artworks of the Museum of Modern Art New York.
- Integrated data from multiple data sets to report findings, often using Python and SQL queries.
- Build an interactive website which had interactive graphs, statistics and a search engine with python code and python flask library.

CORE COMPETENCIES: Applied Statistics, Regression Analysis, Design of Experiments, Econometrics, Economics, Data Mining, Machine Learning, Data Structures and Algorithms, Data-Base Management, Data Wrangling/Munging/Cleaning, Finance & Accounting, Marketing.

TECHNICAL SKILLS:

Python, Anaconda, R, R-Studio, Jupyter Notebook, SK-Learn, Keras, Weka, TensorFlow, MySQL, PostgreSQL, Tableau, SAS, Stata, SPSS, PHP/HTML, MS-Office, MS-Excel, Open Refine

WORK EXAMPLES:

<https://siddharthapachhai.github.io>

<https://handshake.shinyapps.io/meteor/>,

<https://blog.yipl.com.np/tanzania-ngos-a-quick-analysis-from-iatl-data-65c8cc2c1c8b>,

<https://pyart.herokuapp.com>

<https://github.com/siddharthapachhai/Logistic-tennis/blob/master/Files/project.pdf>