SHWETA BIRAJDAR

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Profile

Highly analytical and process oriented with an in-depth knowledge of database types, statistical research methodologies, data mining and visualization tools

Technical Skills

Languages:

- R
- Python (Numpy, Pandas, NLTK, SkLearn)
- Matlab

Data Management Tools:

- MySQL (Querying and Managing Data),
- Alteryx
- Talend Studio (ETL tool, Data Pipeline Jobs)

Statistics Application Software:

- MS Excel
- SPSS
- Minitab (Hypothesis Testing, Regression Analysis, Statistical models)

Data Visualization Software:

- Tableau
- Power BI

Education

Northeastern University, Boston

- MS in Engineering Management
  (Sept '18 - May '20)

NMIMS University, Mumbai

- BS in Electronics and Telecommunications Engineering
  (July '14 - May '18)

Academic Projects

STATISTICAL ANALYSIS OF YOUTUBE CHANNELS *JAN-APRIL'20*

- Built **linear regression models** in **SPSS** to determine which factors contribute to the success of a YouTube channel.
- Performed **ANOVA** to determine impact of factors (subscribers & views) and built **hypothesis** cases for the model.

U.S SCHOOL SYSTEM DATA WAREHOUSING PROJECT *AUG-DEC'19*

- Integrated data from schools across all regions of the U.S to analyze metrics related to the disciplinary system in schools.
- Developed **process flows** and **data pipeline methods** to extract data and pool it into one database –**MySQL** using **Talend ETL tool**.
- Analyzed operating and revenue metrics and devised visualization reports on **Tableau** and **Power BI**.

ONLINE RETAIL INDUSTRY AD HOC ANALYSIS *JUN - AUG '19*

- Defined KPIs' to draw inferences on challenges faced by retail industries in areas such as supply chain management, retail space, distribution channels and, labor issues based on their geographical locations.
- Performed **data cleaning**, **data normalization** and **predictive analysis** to forecast trend in sales and recommend business decisions using **SAS visualization**.

BUILT PTSD DETECTION SYSTEM USING RELATIONAL DATABASES *JAN - MAY '19*

- Researched and integrated Voxel Based Morphometry method in order to detect and predict the level of PTSD using computerized MRI scans.
- Designed a **relational database model** in **MySQL** to build PTSD Detection System and stored the MRI scan results in relational tables.

SENTIMENT ANALYSIS OF TWITTER DATA ON POLITICS *JAN - MAY '17*

- Implemented several **machine learning algorithms** like **Naïve Bayes**, **SVM** and **KNN** to predict the sentiment and formulate a collective viewpoint on a social subject like politics using Python.
- Built further insights based on the data achieved through **disparate data sources** like prominent American TV News Channels.
- Delivered the results through **Tableau dashboards** by explicitly extracting results from the analysis performed.

BUILT PUBLIC BIKE SHARING SYSTEM ON UNIVERSITY CAMPUS *JUL '17 - MAY '18*

- Led in design, implementation and user evaluation phases of the project with a start-up called Zest Smart Solutions.
- Designed database using **MSSQL Server**, wherein users' database could be accessed by the administrator.
- As a **project management coordinator** acted as a liaison among teams.
- Secured 1st position in U'Lectro technical project presentation i.e. the final bachelor's project presentation competition.