

# SHANNON JAMES DIAS

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Fifth Semester Computer and Communication Engineering Student

A highly motivated student, adept at profound analysis of problems, finding patterns and devising efficient solutions along with an intermediate knowledge in probability and elementary statistics, data structures, algorithms and proficient in their applications. Effective communication skills, leadership skills, ability to work in a focused and friendly environment. Looking to further enhance professional experience in data analytical fields and expand knowledge in other computer engineering domains.

## EDUCATION

- **BACHELOR OF TECHNOLOGY** (July 2019 - Current)  
Manipal Institute of Technology, Udupi, Karnataka.
  - Major in Computer And Communication Engineering
  - 7.5 CGPA

## TECHNICAL SKILLS

- **PROGRAMMING LANGUAGES**
  - C++ ●●●○
  - Java ●●●○
  - Python ●●●○
  - SQL (Oracle) ●●●○
  - C ●●●○
- **MARKUP LANGUAGES**
  - HTML ●●○○
  - CSS ●●○○
- **SCRIPTING LANGUAGES**
  - JavaScript ●●○○
- **DATA ANALYSIS**  
Data cleaning, transforming of dataframes, data wrangling using module **Pandas**.  
Web scraping using module **BeautifulSoup** and creating files from scraped tables.  
Mathematical and statistical calculations using the module **Numpy** and working with numpy arrays and functions.
- **DATA VISUALIZATION**  
Histograms, bar graphs, box plots, distribution plots, scatterplots and insightful animated graphs using **Matplotlib**.  
Creating dashboards and insightful visualizations using **Tableau**.

## PROJECTS

- **DASHBOARD OF TOP 5 PREMIER LEAGUE TEAMS PERFORMANCE (2000-2020).**
  - Created a Dashboard using **TABLEAU**, highlighting the essential attributes to easily visualize the performance of the football teams and to also get various insights about the success of the clubs in the league.
  - Carried out the process of **Web Scrapping** of the teams' tables from Wikipedia using **BEAUTIFULSOUP** and then created the CSV files from scratch using the tables dealing with the rowspan issue of one of the Wikipedia tables.
  - Cleaning of redundant values, null values and data transformation was done using **NUMPY** and **PANDAS**.
- **HYPOTHESIS TESTING**
  - Tested the hypothesis: Golf balls with a new coating are more effective than golf balls without coating using the T-test method (CSV file from Kaggle).
  - Created Distributions and Box plots for visualizing outliers, other unusual values using **MATPLOTLIB**.
  - Analyzed the data and calculated the required standard error of means, standard deviations using **NUMPY** and **PANDAS**.
  - Carried out a T-test to obtain the t-statistic and p-value using Module from **SCIPY** to get assumption of hypothesis.
- **SUPERMARKET SALES ANALYSIS DASHBOARD (JAN-MAR 2019)**
  - Performed analysis on supermarket sales dataset obtained from Kaggle to create a **Sales Dashboard** using **TABLEAU** to support business needs.
  - Generated various calculated **KPI fields** and reports in the dashboard to visualize data and gain insights to make better sales decisions and to get answers to various business questions.
  - Increased efficiency for users to obtain and access required data through user-friendly charts and visual representations.
- **LANGUAGE DETECTOR (17 LANGUAGES)**
  - Designed and developed **Machine learning Language detection model** using a dataset from Kaggle, that takes in an arbitrary user-input text, identifies and outputs the language of the text with **99% accuracy**.
  - Utilized the **NLTK Python** library for **Natural Language Processing(NLP)** and text tokenization(TDIF),cleaning of data using **Regex**.
  - Implemented Linear SVM, Naive Bayes, Logistic Regression algorithms for the Classification model and chose one with most accuracy: **SVM** for prediction using **sci-kit learn**.
- **FACEBOOK AD CAMPAIGN OPTIMIZATION REPORT**
  - Created a **Dashboard** using **Tableau** to analyze the ad campaigns of a company on Facebook ads and to gain insights on areas for optimization.
  - Recommended certain changes and highlighted problems to increase conversion rate and also maximize revenue using the calculated fields and KPI fields in the Dashboard.

- **CUSTOMER SEGMENTATION**
  - Created unsupervised ML model using unlabeled dataset, which divides customers into segments on the basis of features using k-Means clustering algorithm from **sklearn**.
  - Performed EDA and Data analysis using **Pandas, nump, Seaborn** and **Matplotlib**.
  - This segmentation helps the companies can identify the several segments of customers allowing them to target the potential user base.
- **STOCK INDEX DATABASE**
  - Web scraped stock data of a particular index from a site using Python Library **Beautiful Soup**.
  - Created Database on **Sqlite** and inserted columns and rows using **SQL**.

## HOBBIES AND INTERESTS

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- **PUBLIC SPEAKING(ENGLISH)**
  - Participated and won in numerous English elocutions.
- **SPORTS-** Football, Basketball, Badminton, Athletics.
  - Won the MSSA interschool State tournament in Football representing Don Bosco, Borivali.(Captained the team in the semi final game of the tournament).
  - Reached the Semi Finals of Interclass Football tournament hosted by Manipal University.
- **MUSIC-** Singing, Playing the guitar, piano.
  - Participated in a music band competition hosted by local colony.