

ABHINAV LAKHANI

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PROFESSIONAL SUMMARY

Data Analyst, with background in robotics and artificial intelligence, familiar with advanced understanding of statistical, algebraic and other analytical techniques to extract relevant insights from data according to the business requirements.

PROJECTS

Capstone Project: [Song Popularity prediction using External Song features and Metadatatapp](#)

- Assessed whether it would be possible to predict the popularity of a particular song only from static characteristics of the song such as loudness, acoustiness, liveness, speechiness, tempo, etc.
- Organized and cleaned data, by imputing null values and outliers, so that various machine learning models can be fit to get the predictive insight from the data.
- Performed Exploratory Data Analysis to gather information from data, such as distributions of individual features and their interactions with target variable, which will help in modeling step.

Term 3 Project: [Healthcare Analytics - Capacity Planning by predicting Patient LOS\(Length of Stay\)](#)

- Examined a big data system(ARTEMIS) deployed at an actual medical facility and simulate it analytically using monte carlo simulation method.
- Predicted patient LOS, from a similar dataset (MIMIC-2), as well as the factors affecting it, in order to, determine the required computational resources such as amount of storage, memory, computation power, etc. used by the cloud system deployed at the medical institution.
- In addition, important performance matrices such as mean number of patient, blocking probability and mean patient residence time are obtained.

EDUCATION

- Data Analytics for Business (Sep. 2020 – Apr. 2022)
CGPA – 4.0
St. Clair, Mississauga ON, Canada
- B. Tech. in Mechatronics (Aug. 2015 – May 2019)
6.5 GPA out of 10.0
Ganpat University, Gujarat, India

SKILLS

Languages and Frameworks

- Python, Julia, R, SQL, C, Scikit-Learn, Flux.jl, DifferentialEquations.jl, TensorFlow, flask, Plotly

Tools

- Git & Github, vscode, bash & wsl, PowerBi, Excel

CERTIFICATIONS

- [Data science professional certificate](#) – Coursera

REFERENCES

- [Matt Mostofi](#): Teaching Instructor at St. Clair college, Mississauga
- [Dr. Sara Jodayree](#): Teaching Instructor at St. Clair college, Mississauga