

# Swara Snehal Gandhi

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Data Scientist and University of Waterloo graduate with an specialization in Artificial Intelligence and Machine learning and hands on experience with data science projects. I help companies to solve business problems and uncover insights through predictive modelling, data processing, data mining algorithms and tools like Power BI and Tableau

## Education

**Master's in Electrical and Computer Engineering | GPA: 3.25,** 05/2021 – 08/2022

University of Waterloo

- Specialization in Artificial Intelligence and Machine Learning and Diploma certification in Business Entrepreneurship.
- Relevant Coursework: Data preprocessing, Data Classification, Machine Learning algorithms, Neural Networks, Algorithm Design and Analysis, Introduction to Optimization, Embodied Intelligence.

**Bachelor's in Computer Engineering | CGPA: 8.86,** 09/2015 – 05/2019

Gujarat Technological University

- Relevant Coursework: Programming Languages, Data Structures, Algorithms, Database management system, SQL, Computer Architecture, Computer Networks.

## Professional Experience

**Software Engineer | Ashario - Toronto, ON** 11/2022 – present

- Ranked Ashario stores in top 10 results by optimizing online visibility and performing Search Engine Optimization techniques using Google analytics and insights from various SEO techniques.
- Implementing WordPress website for the firm to increase the revenue on WordPress using HTML, CSS and Javascript.
- Increased revenue by providing price monitoring insights through Web scraping in Python and BeautifulSoup 4.

**iOS Application Developer Intern | Cloud Web Technologies - India** 05/2018 – 06/2019

- Developed and designed iOS mobile shopping app for a clothing brand named Shubhlaxmi.
- Implemented interactive features to improve user experience.
- Tech Stack: Swift, XCode, HTML, CSS, PHP, MySQL.

## Skills

### Data Analysis:

Data visualization, Reports and Dashboard creation using Power BI, SQL, Data cleaning and Exploratory data analysis, Statistical analysis, Matplotlib and Seaborn

### Machine Learning:

Python, Natural Language Processing, Neural Networks, Regression, Classification, Clustering, dimensionality reduction, ensemble methods.

### Programming :

C, C++, Java, SQL, HTML, CSS, JavaScript, Swift

### Familiarity with

ETL Pipeline, PostgreSQL, Git, PHP, .NET, Software development lifecycle, Agile methodology

## Projects

### Sentiment Analysis

- Increased accuracy to 88% by implementing Feed Forward Neural Network model to predict polarity of 50,000 IMDB movie reviews.
- Performed natural language processing based Tokenization, lemmatization, vectorization and cleaned data in machine understandable language.
- Model includes Keras, LSTM and dropout units with Adam optimizer.

### Prediction of COVID-19 cases

- Predicted Active, Confirmed and death cases with 88% testing accuracy for 2019 kaggle COVID 19 dataset.
- Machine Learning techniques like Data Cleaning, Preprocessing and Prediction using Pandas and NumPy.
- Used Ensemble methods such as KNN(supervised learning classifier), Random Forest, Naïve Bayes in sklearn and XGBoost.

### Different levels of embodiment on Braitenberg vehicle

- Intelligent robot simulated in Webots (Open source robot simulator) was made to interact with the environment and track the behavior.
- Python GUI toolkit Tkinter was used to simulate the actions of Braitenberg vehicle to track collision avoidance in various scenarios with variety of environmental complexities and stimuli.

## Courses

**Power BI Essential Training (2020) - LinkedIn Learning**