

# SIDHANT NAVERIA

## PROFESSIONAL SKILLS

### Programming language and packages:

Python, Pandas, Numpy, Sklearn  
Spacy, NLTK, PIL, Pyspark  
Matplotlib, OpenCV  
C, C++, C# .net  
Jquery, TypeScript  
JavaScript, HTML Powershell, SQL

### Tools:

Google dailogflow  
RPA -Uiopath, Blueprism Backup  
Exec

### Frameworks:

Pytorch, Tensorflow Keras  
Angular, Flask  
.Net

### Cloud solutions:

AWS, GCP

## LANGUAGES

English,  
Hindi

## CONTACT

+91 9711257838

sidhantnaveria@ gmail.com

<https://www.linkedin.com/in/sidhantnaveria/>

<https://github.com/sidhantnaveria>

## PROFILE

Motivated and dedicated software professional with 5 years of professional experience, wanting to work on challenging problems in the realm of machine-based intelligence

## EXPERIENCE

### SENIOR SOFTWARE DEVELOPER-AI/ML/DL

Nitor | April 2021 -

- Work includes working on AI/ML/DL related POCs for the client
- Understand the client's requirement and propose the solution
- Create API's of the model and deploy them to the cloud solution
- work with ML pipelining tools to create ML pipelines
- Perform experiments on the datasets to build the model
- Provide training to the team members and help them in upskilling

### RESEARCH ENGINEER (INTERN)

Agency for Science, Technology and Research (A-STAR), Singapore |  
Feb 2020 - Jul 2020

- Worked on the identification of COVID-19 pneumonia using X-ray images through classification-based machine learning.
- Experimented on multiple models to achieve results with a high level of accuracy.
- Built expertise on image processing, deep learning models, and transfer learning.

### SOFTWARE ENGINEER

Accenture, India | Mar 2015 - Jun 2019

- Credit Suisse:** Implemented an internal customer risk analysis platform by delivering high-quality application enhancements, production bug fixes along with involvement in ad-hoc data cleaning and exploratory data analysis (EDA).
- Hilton Hotels:** Involved in infrastructure maintenance, was responsible for periodic server backups, and performing root-cause analysis. Automated multiple processes through robotic process automation tools (RPA) and developing scripts.
- ITAU Unibanco:** Responsible for the migration of an internal banking application from Visual Basic 6 to C#.

## EDUCATION

### MASTER OF TECHNOLOGY IN INTELLIGENT SYSTEMS

National University of Singapore (NUS) | 2019 - 2020

completed masters in intelligent systems. Learned and gathered skills in AI and deep learning. Worked on projects like stock prediction using genetic algo, chatbot using Dialogflow and implemented ML/deep learning algorithms to work on regression and classification problems

Done my graduation in computer science engineering.

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## PROJECTS ON AI/ML

### SENTIMENT ANALYSIS OF TWITTER TWEETS

- Implemented BERT and other attention models to classify sentiments of different tweets extracted
- Integrated an intelligent chatbot that accommodates for differences in syntax of the questioning grammar
- Designed UI using Angular and deployed on AWS using Docker and EC2 buckets.
- Project Demo: <https://www.youtube.com/watch?v=dAP6SnTM71U&feature=youtu.be>

### Audio Finger Printing

- Spectrogram of the songs are created
- peaks from the spectrogram are used to create hashcodes for the song and saved to a database
- These hash codes are the identifiers for the songs
- backend is deployed to VM
- socket programming is used to send the new song recording for detection.

### STOCKS PREDICTION USING GENETIC ALGORITHM AND DECISION TREE

- Developed an intelligent stock price prediction system which helped in enabling the user to understand the visibility into the following day's stock price trend using Decision Tree and Genetic Algorithm
- The interface was designed using Angular and was deployed on AWS using docker and glassfish services
- Project Demo: <https://www.youtube.com/watch?v=hzJfZM6C5YU&feature=youtu.be>

### IMAGE CLASSIFICATION FOR HEALTHY AND UNHEALTHY FOOD

- Created the image dataset using a web crawler
- Build different deep learning models from scratch using TensorFlow Keras.
- Experimented with different hyperparameters to get the best results

### SIMILAR IMAGES PREDICTION

- Trained autoencoder to encode images of the dataset using Pytorch.
- Performed experiments by tuning hyperparameters to achieve the best encoding.
- Applied the encoded output to train the KNN model to find the 5 nearest neighbors to each image.

**MORE PROJECTS ON GITHUB.**