

# Sneha Sopan Rane

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## Educational Qualifications:

### ➤ Bachelor Of Engineering – IT

PES Modern College of Engineering,  
Pune -05

Savitribai Phule Pune University  
( 2017 – 2020 )

CGPA: 7.27

### ➤ Diploma – IT

Government Polytechnic, Nashik  
An Autonomous Institute

( 2014 – 2017 )

Percentage: 80.00

### ➤ 10th Standard

R J C B Girls Highschool, Nashik  
Road

Maharashtra State Board

( 2013 – 2014 )

Percentage: 87.20

## Certifications:

➤ Python 101 for Data Science  
(CognitiveClass.ai)

➤ Data Analysis using Python  
(Coursera.org)

➤ Data Visualization with Python  
(Coursera.org)

➤ Introduction to R (Datacamp.com)

➤ Databases and SQL for Data Science  
(Coursera.org)

➤ Programming, Data Structures and  
Algorithms using C  
(swayam.gov.in/NPTEL)

## Seminar / Events :

➤ Presented Seminar on 'Virtual  
Keyboard' as an academic course in  
Diploma in March 2017.

➤ Attended '21 days of ML' ev-  
organized by Code Warriors  
September 2020.

## Extra Curricular:

➤ Core Member of National Service  
Scheme (NSS)

➤ Computer Society Of India (CSI)  
membership

➤ Hackerrank score : 229

## Technical Skills:

➤ **Programming:** Python, C, Java, SQL, SAS base

➤ **Databases:** MySQL, IBM DB2

➤ **Python3:** Numpy, Pandas, Scikit-learn, OpenCV, Turtle, pytesseract, BeautifulSoup

➤ **ML/Pre-processing Techniques:** Basic Regression and classification algorithms,  
Handling numerical and categorical data, Encoding techniques, Handling imbalanced  
datasets, Model evaluation using Python

➤ **Computer Vision Techniques:** GrayScale, thresholding, edge and contour detection,  
sharpening and smoothing of images using OpenCV and Python

➤ **Visualization:** Matplotlib, Seaborn, Folium, MS Excel, PowerBI

➤ **Tools:** Jupyter Notebook, PyCharm, Sublime Text, VS Code

## Experience:

### ➤ Software Developer at Aiolos Cloud Solutions ( Mar 2021 - Present )

- **Credit Risk Prediction:** To predict the possible loan defaulters for loan products  
based on the consumer historic behavior. Applied Standardization, encoding  
techniques, RandomOverSampling techniques, built ML models and compared the  
performance on prediction on target class.

- **Chatbot development for an Online Clothing Brand:** To develop chatbots on  
YellowMessenger Platform using JavaScript and MongoDB that can interact with  
website visitors. Designed the flow of chatbot and implemented Steps (certain  
activities like get email, password, validation etc.) and Journeys (overall scenarios like  
register, login, orders, cancellation, multiple language integration to the bot etc.)

## Internships / Fellowships:

### ➤ Data Science Fellowship at Alpha AI (Oct 2020 – Dec 2020)

- Made attractive and descriptive dashboard from US Superstore dataset using MS  
Excel. Created dashboard with various meaningful charts using Pivot tables and  
attributes of dataset. [\[Link\]](#)

- Use of What-if analysis to build a strategy to promote the product categories to  
increase overall sales in each region in US by 25%. [\[Link\]](#)

### ➤ Data Analytics Consulting Virtual Intern at KPMG ( Jun 2020 - Aug 2020 )

- Preliminary data exploration, improve the quality of data, understanding the data  
distributions, feature engineering, data transformations, modelling, results  
interpretation and reporting. [\[Link\]](#)

### ➤ Data Science Intern at Cloud Counselage Pvt Ltd ( Mar 2020 - July 2020 )

- **Job Cloud – the interns' platform :** To build a data visualization model and find the  
best data classification model using the student's dataset. [\[Link\]](#)

- **Fake News Detection :** To build a model to accurately classify a piece of news as REAL  
or FAKE. Build a TfidfVectorizer on dataset, initialize a PassiveAggressive Classifier  
and fit the model. [\[Link\]](#)

## Projects:

### ➤ CORONA VIRUS Data Analysis and visualization Dashboard [\[Link\]](#) [\[Link1\]](#)

**Objective:** To get the basic understanding and exploration of data and visualize the  
covid data, build interactive Dashboard and to deploy it.

**Tools/Libraries:** Numpy, Pandas, Covid, Matplotlib, Plotly, Folium

➤ **Malaria Detection with Python, OpenCV and Machine Learning** [\[Link\]](#)

**Objective:** To use an image dataset containing Parasitized and Uninfected cells images and apply GaussianBlur and GrayScale then identified the largest contours and stored that data into CSV file. Then classified and detected human cell in image is infected by Malaria or not.

**Tools/Libraries:** numpy, pandas, sklearn, opencv-python

➤ **Personal Voice Assistant using Python and Microsoft Speech API** [\[Link\]](#)

**Objective:** To build a voice assistant which is capable to perform:

1. Greet user according to time i.e. Speak
2. Listen to commands ( e.g. 'Open notepad' )
3. Able to navigate on browser ( e.g. Wikipedia, YouTube, Gmail, Github )
5. Read out the results from Wikipedia
6. Play any random song

**Tools/Libraries:** speech\_recognition, SAPI5, pyttsx3, datetime, wikipedia, webbrowser

➤ **COWIN Vaccine Slots Availability Notifier** [\[Link\]](#)

**Objective:** To retrieve vaccine slots availability and get notified when a slot is available by Automated Python Script.

**Tools/Libraries:** Cowin API, Twilio API, requests, datetime, json