

Sucheta Nandi

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Education

VIT Bhopal University B. Tech in Computer Science and Engineering – 9.12 CGPA 12th Standard St. James' High School ISC Percentage: 92.5%	Bhopal, Madhya Pradesh Sep 2022 – May 2026
10th Standard St. James' High School ICSE Percentage: 96.6%	Binnaguri, West Bengal Jun 2022
	Binnaguri, West Bengal Jul 2020

Technical Skills

Python, JAVA, SQL, Machine Learning, Natural Language Processing, Data Analysis, Deep Learning.

Certifications

- Data Analysis with Python (Cognitive Class) – Dec 2023
- Machine Learning with Python (Cognitive Class) – Dec 2023
- Data Visualization with Python (Cognitive Class) – Jan 2024
- SQL and Relational Databases 101(Cognitive Class) – Jan 2024

Projects

ECG Classification Python	Dec 2024 – Apr 2025
<ul style="list-style-type: none">• Developed a model to predict cardiovascular diseases (CVDs) using the MIT-BIH Arrhythmia Database with 87553 observations and PTB Diagnostic ECG Database with 14552 observations.• Implemented preprocessing techniques including wavelet transformation and SMOTE on the datasets and used it to train XGBoost Classifier model.• Collaborated with 5 members to build the project where I was responsible for developing the model and conducting performance analysis.	
Backpack Price Predictor Python	Feb 2025
<ul style="list-style-type: none">• Analyzed a dataset over 300000 backpack listings and designed a machine learning model for prediction of backpack price.• Collected historical backpack prices data, cleaned and preprocessed the data using pandas and sklearn libraries followed by training the XGBoost Regressor model achieving an R2 score of 0.00083 on the test set.• Visualized the dataset using matplotlib and seaborn libraries.	
Gesture2Text Python	Mar 2024 - Jul 2024
<ul style="list-style-type: none">• This project is an image processing approach for recognizing hand gestures and converting them into text along with accuracy comparison of the models in use.• It was implemented using Convolutional Neural Network and Long Short-Term Memory models.• The implementation was carried out by a group of 6 members where I played the role in developing the LSTM model.	
Malaria Detector Python	Apr 2024
<ul style="list-style-type: none">• Built a deep learning model that can successfully detect and classify blood smear images between parasitized and non-parasitized red blood cells with accuracy greater than 95 percent.• It was executed using Convolutional Neural Network model for binary classification of the images.• Utilized Python and TensorFlow/Keras to design, train, and evaluate the model over 100 epochs.	

Extracurricular

Arts

- Continued painting and sketching for 10 years.
- Participated and won awards in 5+ art competitions organized by clubs and schools.

Dance

- Choreographed and performed in 5+ inter-city dance competitions.
- Cultivated strong collaborative spirit within a 10-member dance troupe and directing weekly rehearsals

Achievements

- Hacker rank 3 – star in Java and 4 – star in Python.
- Solved 125+ LeetCode questions. ([Profile](#))
- Participation in Kaggle Competitions.

Additional

Languages: Hindi, Bengali, English