

# ARPITA SANGHANI

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Self-motivated and hardworking person seeking an opportunity to work in a challenging environment to prove my skills and utilize my knowledge & intelligence in the growth of the organization. **Total having five years of work experience.**

## PROFESSIONAL WORK EXPERIENCE

### Forage's British Airways Data Science Virtual Experience Programme | Data Science Internship

March'23

- Data Manipulation, Data Visualization, Sentiment Analysis, Web Scraping · Exploratory Data Analysis, Data Analysis

### CodeCaste Pvt Ltd | Full stack developer Intern (Volunteer work)

JUN'22 to Dec'22

- Built a web application for handling and scheduling interview calls for recruiters – **Saved 1-hour manpower / daily.**
- Developed a website (for a hospital) to manage healthcare operations and management: i.e. search for a doctor, book an appointment with a doctor, emergency contact, chat/email to your doctor's office, etc.
  - Easier reports and result accessibility to patients – **Reduces patient hospitals visit by 50%.**
- Created a static website for handling employment data using HTML, CSS, PHP, XAMPP server and WordPress.

## PROFESSIONAL PROJECTS EXPERIENCE

- **Sign Language Recognition for Deaf and Mute People** **Work project (2020)**
  - Build a project to help deaf and dumb people for transforming sign language into English text conversation in real-time - developed project using the **CCN model in Machine Learning.**
  - Model detected all English alphabets, greetings, and some common small sentences with **75% accuracy.**
- **System to recognize Braille text and convert it to normal text pdf** **Work project (2017)**
  - Developed a Model to help the education system assess blind students' exam papers - Used **Image Processing** for data extraction and **HTML** Web services for online result storing.
  - Model efficiency in the English language with **95 % accuracy, over 2 sets of 5,000 image datasets.** (20:80 training testing ratio)
- **A Novel Hybrid Model for Time Series Forecasting Using Soft Computing Approach** **Master's Research Project (2016)**
  - Proposed a model to improve the forecasting data accuracy for linear and nonlinear data – Implemented using hybrid **ARIMA and SVM models.**
  - Predicted results using **R programming with almost 95 to 99 % accuracy.** (30:70 training testing ratio)

## ACADEMIC WORK EXPERIENCE

### Birla Vishwakarma Mahavidyalaya Engineering College – Gujarat, India | Assistant Professor

JAN'18 to FEB'21

### MBICT College – Gujarat, India | Assistant Professor

JUL'17 to OCT'17

### AITs College – Gujarat, India | Assistant Professor

JUN'16 to MAY'17

- Delivered lectures on Data Mining, Database, C programming, Java, Android Programming, Open Source Tools and Platform, and Compiler Design.
- Guided and Mentored graduate students in final year projects, conducted and graded student examinations and, encouraged/helped students to achieve their academic goals, and participated in various workshops and conferences.

## EDUCATION

### Master's in Information Technology | CHARUSAT University, India

CGPA:8.53, SEP '14 to JUN '16

**Relevant Coursework:** Data Mining, Design and Analysis of Algorithm, Data Structure

### Bachelor's in Computer Engineering | Gujarat Technological University, India

CGPA:8.31, SEP '10 to JUN '14

**Relevant Coursework:** C Programming, OOPJ(Java), Compiler Design, Android, Database Management

## TECHNICAL SKILLS

- Java, Python programming
- Web development - HTML, CSS, WordPress, JavaScript
- Machine learning - Time series forecasting, Data Science
- R programming, MySQL

## PUBLICATION DETAILS

- [Data Analytics An Emerging Career for Indian Women](#), JOURNAL OF ADVANCED DATABASE MANAGEMENT & SYSTEMS, Vol 5, 2019
- [A Novel Hybrid Method for Time Series Forecasting Using Soft Computing Approach](#), Proceedings of the International Conference on ISMAC in Computational Vision and Bio-Engineering 2018 (ISMAC-CVB). ISMAC 2018. Lecture Notes in Computational Vision and Biomechanics, vol 30. Springer, Cham
- [A Review of Soft Computing Techniques for Time Series Forecasting](#), Indian Journal of Science and Technology, 2016, vol9, S1