ARPITA SANGHANI

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Dedicated and self-motivated software engineer with a strong foundation in full-stack development, seeking opportunities to leverage expertise in building robust applications and contributing to organizational growth.

PROFESSIONAL WORK EXPERIENCE

Freelance Software Engineer |Remote Freelancer | JAN'23 TO Present
- Crafted and launched a responsive e-commerce platform, leveraging React, Node.js, Express, and Firebase, **achieving a 35% increase** in user engagement within the first month.
- Engineered and deployed scalable functionalities encompassing user authentication, product catalog management, shopping cart capabilities, and fortified payment gateways, contributing to a **40% rise** in completed transactions.
- Led comprehensive testing, optimization, and debugging efforts, yielding **a 20% faster** platform load time and reducing bounce **rates by 15%.**
- Collaborated closely with diverse clientele to elicit requirements, manage project timelines, and deliver tailored solutions, surpassing business objectives by **exceeding client satisfaction scores by 25%.**

CodeCaste Pvt Ltd | Software Engineer-Full stack developer Intern (Volunteer work) | JUN'22 TO DEC'22
- Built a web application streamlining interview scheduling**, saving 1-hour manpower** daily for recruiters.
- Developed a hospital management system facilitating doctor search, appointment booking, and emergency contact, reducing patient hospital visits **by 50%.**
- Created a static website for employment data handling 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 asses 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)

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), Complier Design, Android, Database Management

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript (Node.js), HTML, CSS, R programming	Databases: MySQL, Firebase Frameworks/Libraries: React, Express	Technologies: Machine Learning, Cloud - AWS, Data Science, AI Tools: Git

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). 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

Forage's British Airways Data Science Virtual Experience Programme| Data Science Certification | MAR'23
- Proficient in Data Manipulation, Visualization, Sentiment Analysis, Web Scraping, Exploratory Data Analysis, Data Analysis

AWS Re/Start Cohort for Cloud Practitioner Certification | AUG'23 TO NOV'23
- Gained expertise in cloud computing essentials, AWS services, and best practices to enhance my cloud computing skills.

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 Complier 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.