

# VAIBHAVI MISHRA

Kanpur, Uttar Pradesh

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## EDUCATION

### Dr. A.P.J Abdul Kalam Technical University

*Bachelor of Technology in Computer Science and Engineering (AI & ML)*

**November 2021 – June 2025**

*Lucknow, Uttar Pradesh*

### Mariampur Senior Secondary School

*Intermediate (PCM) - 92.4%*

**2020-21**

### Mariampur Senior Secondary School

*High School - 92.8%*

**2018-19**

## PROJECTS AND EXPERIENCE

### LANGUAGE DETECTION MODEL USING ML

**April 2024 - present**

- **Developed a language translation system** using advanced Machine Learning and NLP techniques, replicating functionalities of tools like Google Translate.
- **Performed comprehensive data preprocessing** including text cleaning, tokenization, and word embeddings to process over 100,000 multilingual data points and improving model training efficiency.
- **Utilized NLP libraries** such as NLTK and Scikit-learn for text vectorization, implementing Count-Vectorizer and Term Frequency-Inverse Document Frequency for feature extraction with increase in accuracy.
- **Implemented a sequence-to-sequence neural network architecture** with attention mechanisms to handle long-range dependencies and improve translation accuracy.
- **Trained the translation model** using appropriate and clean datasets, optimizing hyperparameters to achieve an improve in accuracy with reduction in training time.

### REMEDIUM- THE HOSPITAL FINDER

**September 2023- present**

- **Developed a web application that enables users** to find the nearest and most appropriate hospitals based on a specific disease or medical condition, enhancing accessibility to healthcare services across cities.
- **Integrated Google Maps API** to deliver accurate geolocation-based results, allowing users to view hospital locations, get directions, and make decisions based on proximity and convenience.
- **Implemented web scraping using Selenium and Beautiful Soup** to collect real-time data on hospitals, including services offered, specialties, contact information, and availability—ensuring that users receive current and relevant information.
- **Designed a responsive and user-friendly interface** using HTML, CSS, and JavaScript, allowing users to search and filter hospitals based on treatment types, distance, ratings, and facilities.

## SKILLS

**Programming Languages:** Python, C

**Web Technologies:** HTML, CSS, JavaScript, ReactJS

**Databases:** SQL

**Tools and Frameworks:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Numpy

**Course Works:** Database Management System, Object Oriented Programming, Data Structures and Algorithms, Computer Networks, Software Engineering

**Soft Skills:** Analytical Brainstorming, Troubleshooting, Task Prioritization, Collaboration, Versatility

## CERTIFICATIONS

- **Database Management System-** Infosys Springboard
- **Introduction to SQL -**Solearn
- **Programming Fundamentals using Python (PART1)-** Infosys Springboard
- **Object Oriented Programming(python)-** Infosys Springboard

## ACHIEVEMENTS

- Achieved 4-star rating as a Python coder on Hackerrank.
- Resolved over 200 problems on platforms like Hackerrank and Leetcode.
- Recognized with a 4-star rating for Analytical Thinking skills on Hackerrank.