

Sakshi Hedke

Web Developer



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Objective

A motivated third-year computer science student with a passion for both web development and machine learning. Proficient in building responsive web applications using HTML, CSS, and JavaScript, while also experienced in applying machine learning algorithms and data analysis in Python. Seeking opportunities to leverage my skills in developing innovative solutions that integrate modern web technologies with AI-driven insights.

Education

Bachelor of Technology in Computer Science
B.R.A.C.T's Vishwakarma Institute Of Information Technology
September, 2024 – Present
CGPA: 8.77

Relevant Courses:

- Data Structures and Algorithms, Object-Oriented Programming (OOP), Database Management Systems (DBMS), Web Technologies (HTML, CSS, JavaScript), Machine Learning, Operating Systems, Computer Networks.

Projects

Zoo Management System

Developed a comprehensive web-based application for managing zoo operations, including animal records, and ticketing systems.

Implemented CRUD (Create, Read, Update, Delete) operations for managing animal data, species information, and enclosure assignments.

Created a user-friendly ticketing system with features for booking, animal records.

Technologies used: Tkinter, Python, MySQL for database management.

Handwritten Digit Recognition using Machine Learning

- Description: Developed a machine learning-based system to recognize handwritten digits using multiple classification algorithms, including Support Vector Machine (SVM), Convolutional Neural Networks (CNN), Random Forest, and Decision Trees.
- Technologies Used: Python, Scikit-learn, NumPy, Pandas, Matplotlib.
- Key Contributions:
 - Preprocessed and prepared a dataset of handwritten digits for training and testing the model.
 - Implemented various machine learning models (SVM, CNN, Random Forest, Decision Tree) and fine-tuned hyperparameters to improve model performance.
 - Achieved high accuracy in classifying digits by leveraging the strengths of both traditional machine learning algorithms and deep learning techniques (CNN).
 - Visualized model performance and errors using confusion matrices and accuracy graphs to evaluate the effectiveness of different models.
- Outcome/Impact: Achieved 98.8% accuracy on the MNIST dataset, demonstrating proficiency in machine learning techniques and the ability to handle real-world image classification challenges.

Portfolio Website

- Description: Designed and developed a personal portfolio website to showcase projects, skills, and experience.
- Tech Stack: HTML, CSS, JavaScript
- Interactive UI/UX with responsive design
- Dark/Light Mode Toggle using JavaScript
- Custom Theme Switcher allowing users to change color themes

Skills

- Programming Languages: List the languages you know (e.g., Java, Python)
- Web Development: HTML, CSS, JavaScript
- Machine Learning: Beginner level
- Other: Soft skills like leadership, communication, teamwork, time management, Adaptability and quick learning.

Extracurricular Activities

- Vice President – Cisco Networking Academy VIIT

September, 2024 – Present

Led and coordinated various club activities, workshops, and technical events focused on networking, cybersecurity, and IT solutions.

Organized training sessions and hackathons to enhance members' technical skills in areas such as CCNA, network configuration, and security protocols.

Collaborated with faculty and industry professionals to host guest lectures and certification programs.

Actively involved in promoting the club, increasing membership, and improving student engagement through innovative initiatives.

Managed a team of core committee members to ensure smooth operation of club events and activities.

Achievements

NPTEL Certification in Data Analytics with Python – Silver Medal

Awarded for outstanding performance in the NPTEL course on Data Analytics, demonstrating proficiency in data analysis, Python programming, and statistical methods.

Languages

- English: Fluent
- Hindi: Fluent
- German: Basic proficiency