Sachin Kr. Singh

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ABOUT ME

As a recent graduate in Computer Science Engineering from Krishna Engineering College, I am eager to launch my career in Information Technology. My portfolio includes practical experience in web development, machine learning, and Python-based projects. Notable projects include a disease prediction model using machine learning, a personal interactive portfolio, and a Python-based virtual assistant. I have hands-on experience with tools such as Google Collab, Anaconda, and Stream lit, and am proficient in Java, Python, JavaScript, HTML, and CSS. I am enthusiastic about contributing to a dynamic team while continuously learning and growing in a supportive environment.

EDUCATION

Krishna Engineering College, Ghaziabad — Ghaziabad, Uttar Pradesh, India
Bachelor of Technology in Computer Science & Engineering — *2020 - 2024*
Obtained: 73.4 %

Rainbow English Sr. Sec School, Delhi — Janakpuri, Delhi, India
Higher Secondary School | CBSE — *2016 - 2017*

Rainbow English Sr. Sec School, Delhi — Janakpuri, Delhi, India
Secondary School | CBSE — *2014-2015*

EXPERIENCE

Digital Bhem Organization — July 2023 – August 2023
Web Developer — *Ghaziabad, Uttar Pradesh, India*

- About Project Overview and Practical Applications of Web Development.
- Hands-on Experience on Front end Technologies.
- Tools & Technology: HTML, CSS, JavaScript.

PROJECTS

Disease Prediction Using Machine Learning

- A Machine Learning Model to Predict Disease by analyzing Patient data like age, Medical History etc.
- Worked with Different algorithms like **Support Vector Machines** and **Random Forest**.
- Used **Google Collab**, **Anaconda, Spyder, Stream lit.**
- In our Model, there are four diseases which can be predicted till now are – Diabetes, Kidney Disease, Breast cancer, heart disease.
- Implemented data preprocessing and feature engineering techniques to improve model accuracy and robustness.
- Conducted thorough model evaluation and validation to ensure reliable predictions across different patient datasets

Portfolio using Frontend Technologies

- Created a modern, interactive portfolio using **HTML, CSS, and JavaScript** to showcase projects, skills, and contact information.
- Implemented a responsive design to ensure optimal viewing experience across various devices and screen sizes.
- Incorporated interactive elements and animations to improve user experience and engagement with the portfolio content.

- Implemented responsive design to ensure the game functions well on various devices.
- Included customizable difficulty levels to cater to a wide range of players.

Virtual Assistant using Python

- Created a Python-based virtual assistant capable of performing tasks like setting reminders, sending emails, and fetching information using voice commands.
- Implemented speech recognition and natural language processing (**NLP**) techniques to enhance the assistant's ability.
- Leveraged various **Python libraries** and **APIs**, such as **Speech Recognition**, **pyttsx3**, to build and enhance the functionality of the virtual assistant.
- Integrated additional features like weather updates and news summaries to broaden the assistant's utility.
- Ensured a user-friendly interface and robust performance through extensive testing and optimization.

Random Number Guessing Game

- Created a random number guessing game using **JavaScript** to engage users with a fun and interactive experience.
- Designed the game logic to generate random numbers and provide feedback on guesses, along with a simple and intuitive user interface using **HTML** and **CSS**.
- Added dynamic elements such as score tracking and user input validation to improve the overall gameplay experience.
- Implemented responsive design to ensure compatibility across various devices.
- Enhanced user engagement with sound effects and visual feedback for correct and incorrect guesses.

Adventure Quiz Game Using Python

- Developed an engaging adventure-themed quiz game using Python, featuring multiple-choice questions to test players' knowledge.
- Implemented game logic for dynamic question progression and real-time scoring, enhancing user engagement and competitiveness.
- Leveraged Python libraries such as **tkinter** for the graphical user interface, making the game visually appealing and user-friendly.
- Added a variety of question categories to keep the gameplay interesting and educational.
- Incorporated sound effects and animations to enhance the interactive experience and player enjoyment.

TECHNICAL SKILLS

Languages	:	Java, Python, JS, HTML, CSS, Basic PHP, JavaScript
Databases	:	MYSQL
Dev Tools	:	Visual Studio code, GitHub

CERTIFICATIONS AND ACHIEVEMENTS

- Google Data Analytics Certificate by Coursera. (Certificate link)
- Google UX Design Certificate by Coursera. (Certificate link)
- Google IT Automation with Python Certificate by Coursera. (Certificate link)
- AWS (Cloud Computing) From ICT Honeywell Academy. (Certificate link)
- Internet of things and AI cloud By Coursera. (Certificate link)
- Power BI from Honeywell Academy. (Certificate link)

EXTRACURRICULARS

- Leadership experience as CR (Class Representative).
- Sports and Fitness (Strength training and cardio).
- Learning new Technologies and Trading methods.