

Ramani Kant Jha

Delhi, 110092 (IN) | (+91)7840030847 | kantramani01@gmail.com | linkedin.com/in/ramani-kant-jha

Professional Summary

A recent B.tech graduate in Computer Science and Engineering with a strong foundation in web development, data science, and machine learning. Skilled in HTML, CSS, JavaScript, Python, and React, with hands-on experience in creating responsive websites and building predictive models. Notable projects include a heart disease prediction model and an AI-powered art generation tool optimized for low-end devices. A patent holder for a heart disease prediction model, demonstrating a strong research and technical aptitude. Eager to apply my skills and contribute to innovative projects in web development, AI, or data science.

Education

Delhi Technical Campus - Greater Noida, Uttar Pradesh
B.tech, Computer Science And Engineering (8.89 CGPA)

Aug 2019 - July 2023

Pusa Institute Of Technology - New Delhi, Delhi
Diploma, Mechanical Engineering

Jul 2016 - May 2019

Employment History

Web Developer Intern, TwoWaits Technologies Pvt. Ltd. Greater Noida, Uttar Pradesh

Jul. 2022 - Aug. 2022

- **Responsibilities:**
 - Developed the frontend of a Gym website as part of a one-month internship project, utilizing HTML, CSS, and JavaScript.
 - Collaborated with the design team to implement a user-friendly and visually appealing interface, ensuring responsive design across different devices.
 - Integrated navigation features, contact forms, and interactive elements to enhance user experience.
 - Conducted cross-browser compatibility testing to ensure the website functioned smoothly on all major browsers.
- **Key Achievements:**
 - Successfully created a fully functional and visually engaging gym website frontend, meeting all project requirements and deadlines.

Technical Skills

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|--------------|--------------------|---------|
| • HTML/CSS | • Python | • DBMS |
| • JavaScript | • Data Science | • Excel |
| • React | • Machine Learning | • MySQL |

Projects

Heart Disease Prediction Model

[Link](#)

- **Description:** Developed and optimised a heart disease prediction model using machine learning algorithms to predict the likelihood of heart disease based on patient data.
- **Technologies Used:** Python, Scikit-learn, Pandas, NumPy, Matplotlib
- **Key Contributions:**
 - Implemented multiple classification algorithms, including Random Forest, Logistic Regression, and Support Vector Machine.
 - Significantly increased the accuracy of all the classification models through hyperparameter tuning and model optimization.
 - Applied advanced techniques such as cross-validation, feature selection, and grid search to fine-tune model parameters for better performance.
 - Analysed and pre-processed data to ensure quality and consistency, improving overall model reliability.
- **Outcome:** Achieved a notable improvement in prediction accuracy, demonstrating strong skills in machine learning and model optimization.

Generating Art with AI for Low-End Devices

[Link](#)

- **Description:** Developed an AI-based art generation tool optimized for low-end devices, providing users with the ability to generate exact or approximate images based on their input. The project includes a basic offline GUI to enhance user accessibility.
- **Technologies Used:** Python, TensorFlow, Keras, OpenCV, Tkinter (for GUI)
- **Key Contributions:**
 - Designed and optimized a neural network model for generating art from user input while minimizing the computational load to ensure smooth operation on low-spec devices.
 - Used techniques like model pruning and quantization to maintain image quality without overloading system resources.
 - Developed a simple offline GUI using Tkinter, allowing users to interact with the application seamlessly without an internet connection.
 - Implemented features to generate both exact and approximate artistic images based on text input, offering flexibility in the output.
 - Ensured the application was lightweight and easy to use, even on devices with minimal hardware specifications.
- **Outcome:** Successfully created an offline AI-powered art generation tool accessible to users with low-spec devices, providing an intuitive and efficient way to generate art without the need for high-performance hardware.

Accomplishments

Patent Holder: Developed and patented a heart disease prediction model in collaboration with professors and college, showcasing strong research and technical expertise.

Heart Disease Prediction Model: Designed and implemented a predictive model using Python and data science techniques, significantly enhancing its efficiency and accuracy.

AI Art Generation Optimization: Optimized an AI-powered art generation program to function effectively on systems with low GPU capabilities, improving accessibility and performance.