Mukesh Uday Kumar

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Summary

Strong foundation in Java, SQL, HTML, and CSS with a passion for web development. Capable of building interactive user interfaces and managing databases. Eager to learn and contribute to innovative projects.

Education

Bachelor of Technology (B.Tech) in Artificial Intelligence and Machine Learning
Sreenivasa Institute of Technology & Management Studies (2024)

Intermediate (MPC)
Sri Chaitanya Junior College (2020)

Secondary School Certificate (SSC)
DR. KKR's Gowtham School (2018)

Skills & Certifications

- **Languages:** Java, HTML, CSS, JavaScript ,ReactJS,Redux,SQL.
- **Certifications:** Google Foundations of UX, Microsoft Azure Data Fundamentals, Java Full Stack (Tap Academy)

Projects

- **Cardiovascular Disease Prediction Using Retinal Images** (Jan-May 2024)
  - I developed a deep learning model for early cardiovascular disease detection using retinal images, utilizing advanced feature extraction techniques to identify disease-related patterns. By leveraging convolutional neural networks (CNNs), the model effectively detects subtle biomarkers linked to cardiovascular conditions. To enhance its predictive capabilities, I fine-tuned hyperparameters and applied data augmentation techniques, ensuring better generalization and reducing overfitting.
  - Additionally, the model underwent rigorous validation and testing on large datasets to ensure reliability and robustness in real-world applications. This approach significantly improves early diagnosis accuracy, enabling timely medical intervention and ultimately leading to better patient outcomes.

- **Image-to-Text-to-Image using ML** (Aug-Oct 2023)
  - I developed an Image-to-Text-to-Image system using Machine Learning for image captioning and regeneration, integrating computer vision and NLP techniques for accurate feature extraction and text generation.
  - Additionally, I enhanced image synthesis by converting textual descriptions back into meaningful images and optimized model performance through transfer learning and fine-tuning, improving the accuracy of caption generation and image regeneration.

Internships

- **Frontend Developer Intern - Tekstructers Technologies** (July 2024 – Jan 2025)
  - Designed and optimized user-friendly web interfaces using HTML, CSS, and modern web technologies.
  - Focused on responsive design and seamless user experience for enhanced accessibility.

- **Frontend Developer Intern - DLK Technologies** (May 2023 – Jul 2023)
  - Designed and implemented responsive web interfaces using HTML and CSS to enhance user experience.
  - Ensured seamless functionality across devices for improved accessibility and usability.