

Sanjay Kumar J

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I am a passionate Developer with expertise in Python, SQL, Django, Frontend Stack and Machine Learning .I prioritize learning new technologies and staying updated on industry trends to consistently enhance my skills.

EDUCATION

Vivekananda Institute Of Technology

Bachelor of Engineering - Computer Science

7.91 CGPA

2020 - 2024

PES PU College

12th STD - Science - PCMB

81.5%

March - 2020

SKILLS

Technical Skills

- Front-end - HTML, CSS, JavaScript
- Back-end - Django, Python , SQL
- Machine Learning Algorithm, Pandas ,Numpy ,Scikit-Learn
- Git/Github, AWS Services (S3, EC2)
- OOP

PROJECTS

Detection of Malicious URL using Machine Learning

- Designed and implemented an ML pipeline with components for data ingestion, transformation, validation, model training, and deployment, reducing manual intervention by 50% through automated workflows.
- Deployed models and artifacts to AWS S3; integrated CI/CD workflows using GitHub Actions, improving deployment speed by 50% and ensuring consistent delivery.
- Enhanced malicious URL detection accuracy to 90%, significantly improving system reliability and reducing false positives.

Multiple Disease Prediction with HealthGpt and Food Image Nutrition Analyzer

- Developed machine learning models using the Random Forest algorithm, achieving 90% accuracy in predicting heart disease, diabetes, and Parkinson's disease based on patient data.
- Integrated an LLM-powered chatbot, enhancing user engagement and enabling personalized health insights through interactive disease-related queries.
- Built a vision-based system to analyze food images, estimating calorie content and classifying meals as healthy or unhealthy, supporting healthier dietary decisions.

Topic-Based Chatroom Application

- Developed a real-time chatroom platform allowing users to create rooms for topic-specific discussions, enhancing user engagement.
- Implemented features for secure, topic-based communication using efficient backend logic and real-time database interactions.
- Deployed the application to AWS EC2 at a production level, ensuring scalability and high availability for users.

INTERNSHIP

Intrainz pvt ltd : Oct 2023 - Dec 2023

- Applied machine learning techniques to real-world AI projects, gaining hands-on experience in end-to-end model development.
- Enhanced Python proficiency and utilized libraries like Pandas, NumPy, and Scikit-learn for data analysis and modeling.
- Developed and optimized supervised and unsupervised learning models, improving predictive accuracy by 10-15%.

OTHER ACTIVITIES

Engaged as a core committee member for college events, demonstrated leadership qualities, and actively participated in diverse Cultural and sporting activities.