

# 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 - Physics, Chemistry, Mathematics, Biology

81.5%

March - 2020

## SKILLS

### Technical Skills

- Front-end - HTML, CSS, JavaScript
- Back-end Framework - Django, Python
- Machine Learning Algorithm, Pandas ,Numpy ,Scikit-Learn
- Git/Github, AWS Services (S3, EC2)
- DBMS, OS, 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 with 85% accuracy, 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.