CATHERINE JENISHTHA .J

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Portfolio : **https://cathyjenish.github.io/Portfolio/**

CAREER OBJECTIVE:

- Dedicated and highly motivated Machine Learning and Python with a recent degree in BE Computer Science Adept at leveraging cutting-edge technologies to streamline development, deployment, and operations processes. Proven ability to collaborate with cross-functional teams and a strong commitment to continuous learning.

TECHNICAL SKILLS:

Cloud Platform	: Azure	**Version Control**	: Git/ Github
Data Analysis	: MS-Excel, PowerBi	**Programming Language:**	Python, Javascript Css, html
Operating Systems	: Linux, Windows	**Machine Learning**	: Keras , Yolov5
Database	: MYSQL , PostgreSQL	**Framework**	: Django, React, Flask

PROFESSIONAL EXPERIENCE:

- Since September'5 till July with **Mspace drone technology pvt. Lmdt.**, Chennai as 'Project assistant **Software Developer'.**

JOB PROFILE:

- **Image Processing:** Trained image models using Keras and YOLOv5 frameworks for advanced image recognition tasks.
- **Object Tracking:** Implemented object tracking algorithms utilizing Convolutional Neural Networks (CNN) to accurately monitor and follow objects in real-time.
- **Shortest Path Planning for Drones:** Developed and optimized path planning algorithms for drones using Dijkstra's algorithm to ensure efficient route selection.
- **Multiple Live Video Streaming in Mesh Networks:** Developed a streamlined Tkinter-based application for mesh network live video streaming, reducing buffer times by 90% and identified findings to fix the three biggest causes of crashes

PROJECTS:

Shortest Path Planning with Polygon Obstacle *Avoidance* **Dec 2023**

- Developed and implemented a shortest path planning algorithm with polygon obstacle avoidance, ensuring efficient and safe navigation in complex environments.
- Integrated advanced pathfinding techniques to enhance obstacle detection and route optimization for autonomous systems.

Heart Disease Prediction Application Using IoT device **Feb 2024**

- Designed and developed an IoT-based application for predicting heart diseases, utilizing real-time data collection from sensors and advanced machine learning algorithms.

- Implemented predictive analytics to monitor vital signs and provide early warning alerts for potential heart conditions.

CERTIFICATIONS:

- **Full Stack Development using Mean** **Oct 2022**
  Specializing in the MEAN stack (MongoDB, Express.js, Angular, Node.js) with hands-on experience in building scalable web applications.
- **Python Programming** **June 2023**
  Completed a Summer Internship in Python Programming from June 19, 2023, to August 2, 2023, organized by Cosmic Skills in collaboration with Azure Skynet Solutions Pvt. Ltd. Gained hands-on experience in Python development and problem-solving techniques.
- **Cloud computing Fundamentals** **July 2025**
  Gained foundational knowledge of **cloud models, deployment strategies, and services** of AWS, Azure , IBM cloud with hands-on experience in **IBM Cloud** tools and concepts.

EDUCATIONAL AND PROFESSIONAL CREDENTIALS:

Qualification	School/University	Year of Passing	Percentage
B.E(Computer science and Engineering)	S.A Engineering College, Chennai.	2024	84%
12th STD	Nazareth Matriculation Hr. Sec. School, Chennai.	2020	66%
10th STD	Nazareth Matriculation Hr. Sec. School, Chennai.	2018	78%

PERSONAL PROFILE:

Father's Name : Jayakumar . S
Name : Catherine Jenishtha . J
Date of Birth : 2nd June, 2002
Languages known : English and Tamil
Location : Chennai, India

I hereby declare that the information and facts mentioned above are true to the best of my knowledge and belief.

Regards,
Catherine Jenishtha .J