YouTube:

GitHub source code:

LinkedIn:

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Short description:

The AI-powered Cancer Diagnosis App offers a user-friendly interface for uploading medical images such as CT, MRI, X-ray, PET, and Mammography scans, depending on the training dataset. Focused on brain cancer, skin cancer, and lung pneumonia diagnoses, the app employs a Convolutional Neural Network (CNN) powered by TensorFlow and Python. After analysis, the chatbot provides a text-based diagnosis with corresponding probability, along with medical advice. Enhancing user experience, a friendly doctor AI-created avatar interacts with users. Relevant data is saved in a SQL database dynamically. The app is designed with Flask, Jinja2, Bootstrap, and JavaScript, containerized with Docker, orchestrated with Kubernetes, and can be hosted on AWS EKS or any other platform which supports Kubernetes.

Note: This concept is for local use only, and significantly improved training data is essential for real-world applications.

Technologies used: Python, Convolutional neural network, Open CV – Computer vision, SQL, Pandas, Tensorflow, Keras, Scikit-learn, Git, GitHub, Docker Desktop, Docker Hub, Kubernetes, Minikube, Namecheap, HTML, CSS, Bootstrap, Javascript, Flask, Jinja2, Linux, AI Image generation tools as Adobe Firefly and Playground.com

[#AIDiagnosis](https://www.youtube.com/hashtag/aidiagnosis) [#CancerDiagnosis](https://www.youtube.com/hashtag/cancerdiagnosis) [#MedicalImaging](https://www.youtube.com/hashtag/medicalimaging) [#HealthcareAI](https://www.youtube.com/hashtag/healthcareai) [#TensorFlow](https://www.youtube.com/hashtag/tensorflow) [#ConvolutionalNeuralNetwork](https://www.youtube.com/hashtag/convolutionalneuralnetwork) [#FlaskApp](https://www.youtube.com/hashtag/flaskapp) [#DockerKubernetes](https://www.youtube.com/hashtag/dockerkubernetes) [#MedicalAI](https://www.youtube.com/hashtag/medicalai) [#PythonProgramming](https://www.youtube.com/hashtag/pythonprogramming) [#MachineLearning](https://www.youtube.com/hashtag/machinelearning) [#CTScan](https://www.youtube.com/hashtag/ctscan) [#MRI](https://www.youtube.com/hashtag/mri) [#XRay](https://www.youtube.com/hashtag/xray) [#PETScan](https://www.youtube.com/hashtag/petscan) [#Mammography](https://www.youtube.com/hashtag/mammography) [#HealthTech](https://www.youtube.com/hashtag/healthtech) [#AIinMedicine](https://www.youtube.com/hashtag/aiinmedicine) [#AWS](https://www.youtube.com/hashtag/aws) [#FullStackDevelopment](https://www.youtube.com/hashtag/fullstackdevelopment) [#CancerDetection](https://www.youtube.com/hashtag/cancerdetection) [#HealthcareInnovation](https://www.youtube.com/hashtag/healthcareinnovation) [#PythonDevelopment](https://www.youtube.com/hashtag/pythondevelopment) [#DeepLearning](https://www.youtube.com/hashtag/deeplearning) [#FlaskFramework](https://www.youtube.com/hashtag/flaskframework) [#Docker](https://www.youtube.com/hashtag/docker) [#Kubernetes](https://www.youtube.com/hashtag/kubernetes) [#FullStackDeveloper](https://www.youtube.com/hashtag/fullstackdeveloper) [#DataScience](https://www.youtube.com/hashtag/datascience) [#AIinHealthcare](https://www.youtube.com/hashtag/aiinhealthcare) [#SoftwareDevelopment](https://www.youtube.com/hashtag/softwaredevelopment) [#TechInMedicine](https://www.youtube.com/hashtag/techinmedicine)