

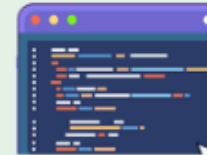
Building a CNN for Skin Cancer Lesion Diagnosis

Step 1: Collect and Prepare Data



Image preprocessing steps like resizing, and data handling using tools like OpenCV, Pandas, and Numpy

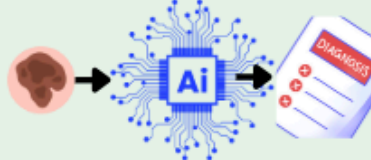
Step 2: Build the CNN Architecture



Used tools like ReLu, Batch Normalization, & Dropout

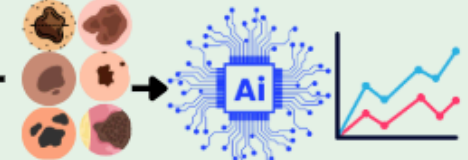
Using TensorFlow library tool to build convolutional layer, feature maps, fully connected layer, and final classification

Step 4: Test the Model



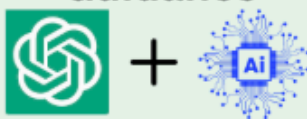
Inputting an image of a skin mole, knowing the diagnosis, to see if model gives same result, along with confidence %

Step 3: Train the Model



Feeding data into model and training it over epochs, monitoring accuracy and loss graphs

Step 5: Add AI-Powered User Guidance



Integrating ChatGPT powered AI guidance, so that users get info and precautions about the diagnosis received from model

Step 6: Evaluate Model Performance



Analyzing accuracy and loss graphs, and comparing training and validation accuracy to evaluate performance

and the model is ready to be used in the real world!