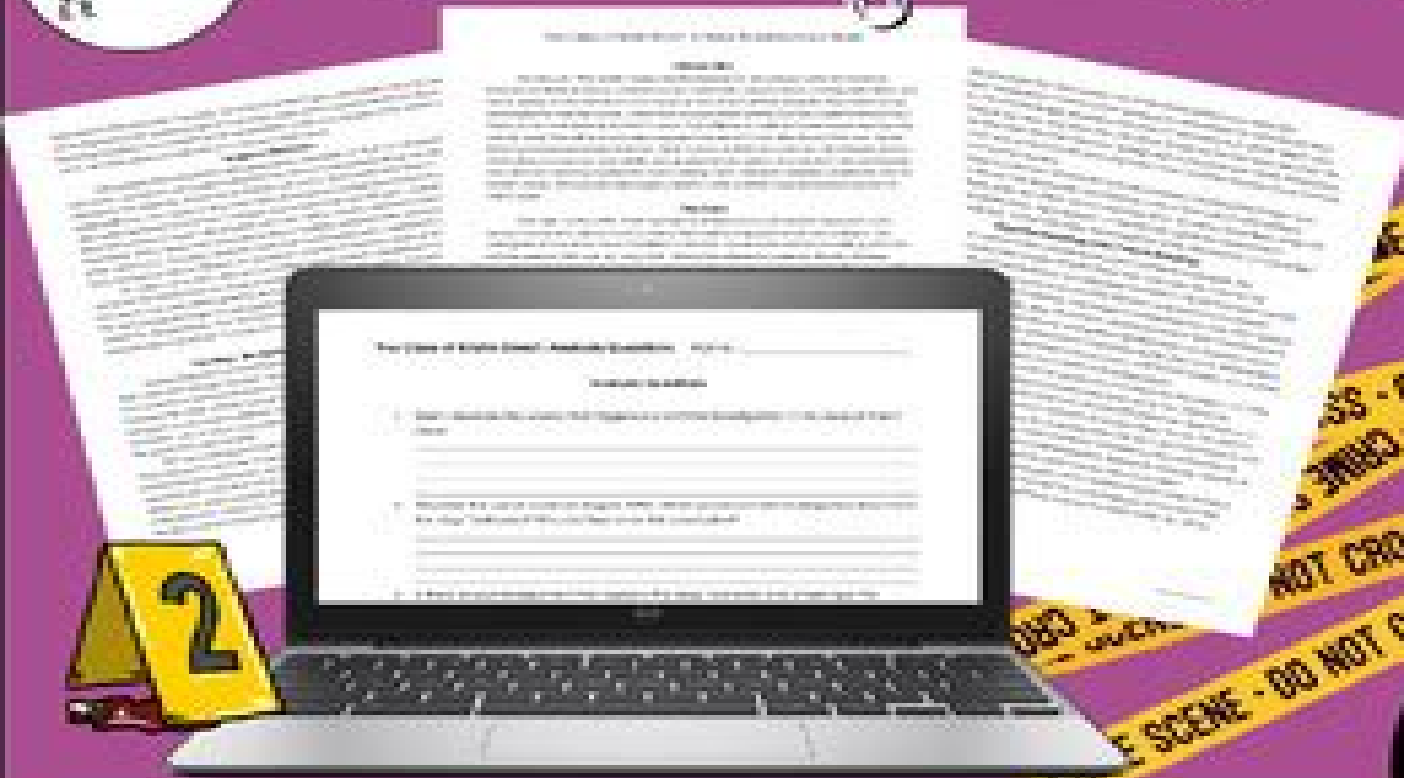


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High School Forensics Study Guide

Dave Kleiman



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KERAS, and TENSORFLOW with Python GUI Vivian Siahaan,Rismon Hasiholan Sianipar,2023-06-17 In this book you will learn how to use TensorFlow Keras Scikit Learn OpenCV Pandas NumPy and other libraries to implement deep learning on recognizing traffic signs using GTSRB dataset detecting brain tumor using Brain Image MRI dataset classifying gender and recognizing facial expression using FER2013 dataset In Chapter 1 you will learn to create GUI applications to display image histogram It is a graphical representation that displays the distribution of pixel intensities in an image It provides information about the frequency of occurrence of each intensity level in the image The histogram allows us to understand the overall brightness or contrast of the image and can reveal important characteristics such as dynamic range exposure and the presence of certain image features In Chapter 2 you will learn how to use TensorFlow Keras Scikit Learn Pandas NumPy and other libraries to perform prediction on handwritten digits using MNIST dataset The MNIST dataset is a widely used dataset in machine learning and computer vision particularly for image classification tasks It consists of a collection of handwritten digits from zero to nine where each digit is represented as a 28x28 grayscale image The dataset was created by collecting handwriting samples from various individuals and then preprocessing them to standardize the format Each image in the dataset represents a single digit and is labeled with the corresponding digit it represents The labels range from 0 to 9 indicating the true value of the handwritten digit In Chapter 3 you will learn how to perform recognizing traffic signs using GTSRB dataset from Kaggle There are several different types of traffic signs like speed limits no entry traffic signals turn left or right children crossing no passing of heavy vehicles etc Traffic signs classification is the process of identifying which class a traffic sign belongs to In this Python project you will build a deep neural network model that can classify traffic signs in image into different categories With this model you will be able to read and understand traffic signs which are a very important task for all autonomous vehicles You will build a GUI application for this purpose In Chapter 4 you will learn how to perform detecting brain tumor using Brain Image MRI dataset Following are the steps taken in this chapter Dataset Exploration Explore the Brain Image MRI dataset from Kaggle Describe the structure of the dataset the different classes tumor vs non tumor and any preprocessing steps required Data Preprocessing Preprocess the dataset to prepare it for model training This may include tasks such as resizing images normalizing pixel values splitting data into training and testing sets and creating labels Model Building Use TensorFlow and Keras to build a deep learning model for brain tumor detection Choose an appropriate architecture such as a convolutional neural network CNN and configure the model layers Model Training Train the brain tumor detection model using the preprocessed dataset Specify the loss function optimizer and evaluation metrics Monitor the training process and visualize the training validation accuracy and loss over epochs Model Evaluation Evaluate the trained model on the testing dataset Calculate metrics such as accuracy precision recall and F1

score to assess the model's performance Prediction and Visualization Use the trained model to make predictions on new MRI images Visualize the predicted results alongside the ground truth labels to demonstrate the effectiveness of the model Finally you will build a GUI application for this purpose In Chapter 5 you will learn how to perform classifying gender using dataset provided by Kaggle using MobileNetV2 and CNN models Following are the steps taken in this chapter Data Exploration Load the dataset using Pandas perform exploratory data analysis EDA to gain insights into the data and visualize the distribution of gender classes Data Preprocessing Preprocess the dataset by performing necessary transformations such as resizing images converting labels to numerical format and splitting the data into training validation and test sets Model Building Use TensorFlow and Keras to build a gender classification model Define the architecture of the model compile it with appropriate loss and optimization functions and summarize the model's structure Model Training Train the model on the training set monitor its performance on the validation set and tune hyperparameters if necessary Visualize the training history to analyze the model's learning progress Model Evaluation Evaluate the trained model's performance on the test set using various metrics such as accuracy precision recall and F1 score Generate a classification report and a confusion matrix to assess the model's performance in detail Prediction and Visualization Use the trained model to make gender predictions on new unseen data Visualize a few sample predictions along with the corresponding images Finally you will build a GUI application for this purpose In Chapter 6 you will learn how to perform recognizing facial expression using FER2013 dataset using CNN model The FER2013 dataset contains facial images categorized into seven different emotions anger disgust fear happiness sadness surprise and neutral To perform facial expression recognition using this dataset you would typically follow these steps Data Preprocessing Load and preprocess the dataset This may involve resizing the images converting them to grayscale and normalizing the pixel values Data Split Split the dataset into training validation and testing sets The training set is used to train the model the validation set is used to tune hyperparameters and evaluate the model's performance during training and the testing set is used to assess the final model's accuracy Model Building Build a deep learning model using TensorFlow and Keras This typically involves defining the architecture of the model selecting appropriate layers such as convolutional layers pooling layers and fully connected layers and specifying the activation functions and loss functions Model Training Train the model using the training set This involves feeding the training images through the model calculating the loss and updating the model's parameters using optimization techniques like backpropagation and gradient descent Model Evaluation Evaluate the trained model's performance using the validation set This can include calculating metrics such as accuracy precision recall and F1 score to assess how well the model is performing Model Testing Assess the model's accuracy and performance on the testing set which contains unseen data This step helps determine how well the model generalizes to new unseen facial expressions Prediction Use the trained model to make predictions on new images or live video streams This involves detecting faces in the images using OpenCV extracting facial features and feeding the processed images into the model for

prediction Then you will also build a GUI application for this purpose The High School Teacher ,1925 **Debater's**
Magazine ,1950 *The Nebraska Educational Journal* ,1927 *Speech Activities* ,1950 **University of Iowa Extension**
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