



# LIPS-MOVEMENT DETECTION MODEL & APP

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CSE299.09

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**IN THIS JUNIOR PROJECT, WE PRESENT THE DESIGN AND IMPLEMENTATION OF THE LIPS-MOVEMENT-DETECTION MODEL APP, AN INNOVATIVE APPLICATION THAT DETECTS AND ANALYZES LIP MOVEMENTS USING COMPUTER VISION TECHNIQUES.**



**The development of the LIPS-MOVEMENT-DETECTION model app aims to address the need for an efficient and precise system capable of detecting and interpreting lip movements. This project aims to bridge the gap between speech recognition and visual cues by using computer vision techniques to detect and analyze lip movements for various applications.**



**THE GOALS OF THIS PROJECT ARE TO: DEVELOP A LIPS-MOVEMENT-DETECTION-MODEL-APP THAT CAN DETECT AND TRACK LIP MOVEMENT. TRAIN A DEEP LEARNING MODEL FOR LIP MOVEMENT DETECTION. EVALUATE THE PERFORMANCE OF THE APP ON A VARIETY OF DATASETS.**



**Define the problem,  
Choose deep  
learning Framework**



**Collect data, Process  
data**



**Build data loading  
function**



**Create data pipeline**



**Setup Training  
Options & Train the  
model**



**Evaluate the model**



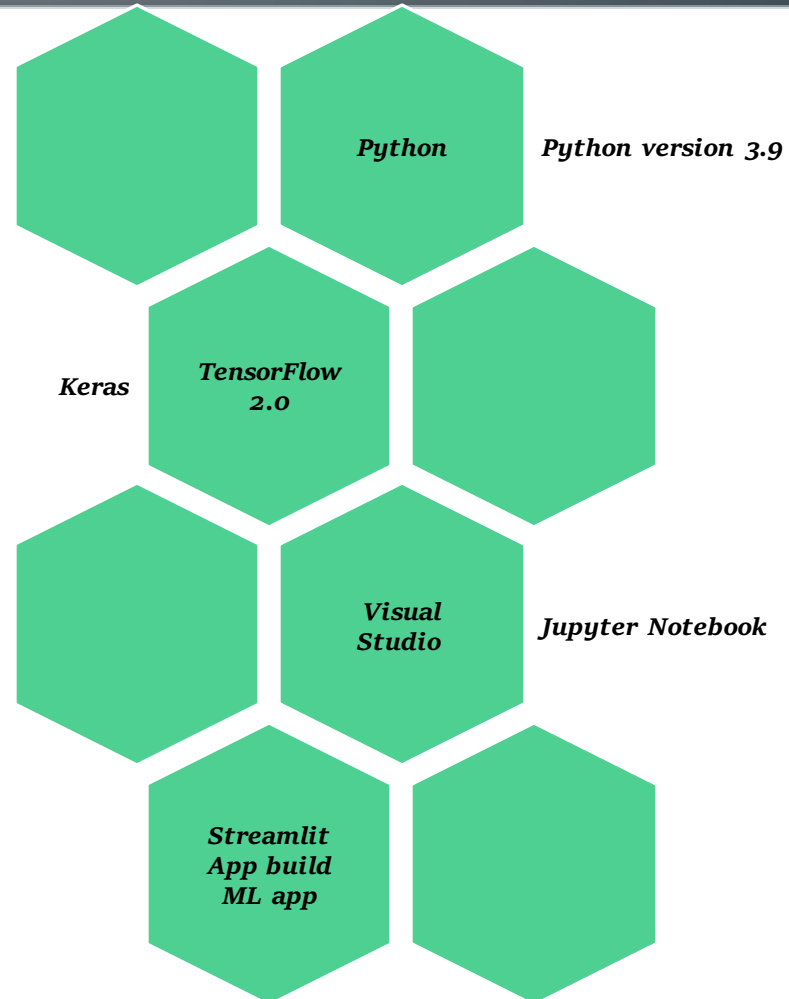
**Test the model**

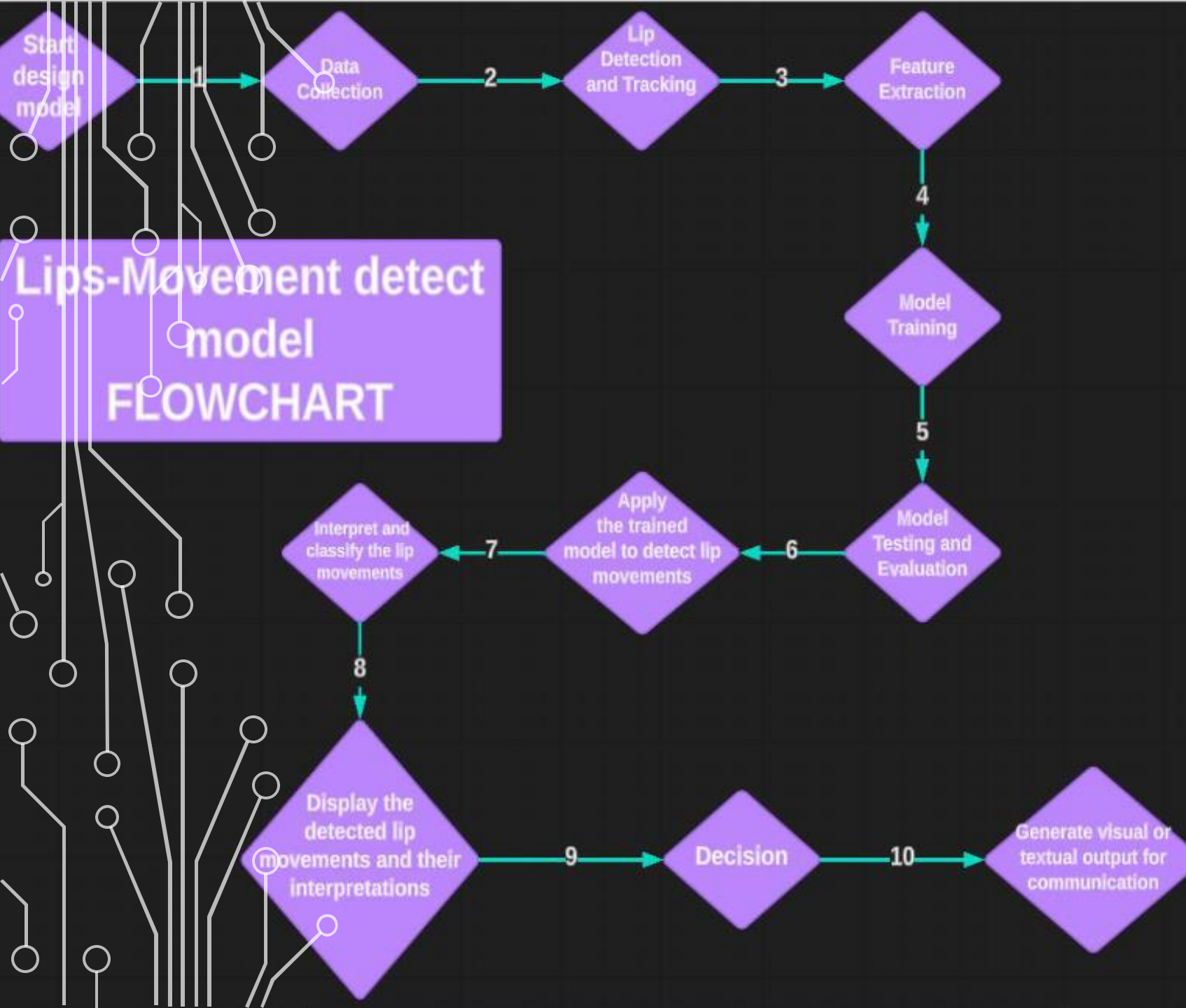


**Build Streamlit ML  
App**

# TECHNOLOGY WE USED IN OUR PROJECT

CONVOLUTIONAL NEURAL  
NETWORKS (CNNs) WERE  
USED TO EXTRACT  
RELEVANT VISUAL  
FEATURES FROM THE LIP  
REGION.





# PROJECT FLOWCHART





# LET'S EXPLAIN OUR MODEL NOW

[HTTPS://GITHUB.COM/TAS890/LIPS-MOVEMENT-DETECTION-MODEL-APP](https://github.com/TAS890/LIPS-MOVEMENT-DETECTION-MODEL-APP)