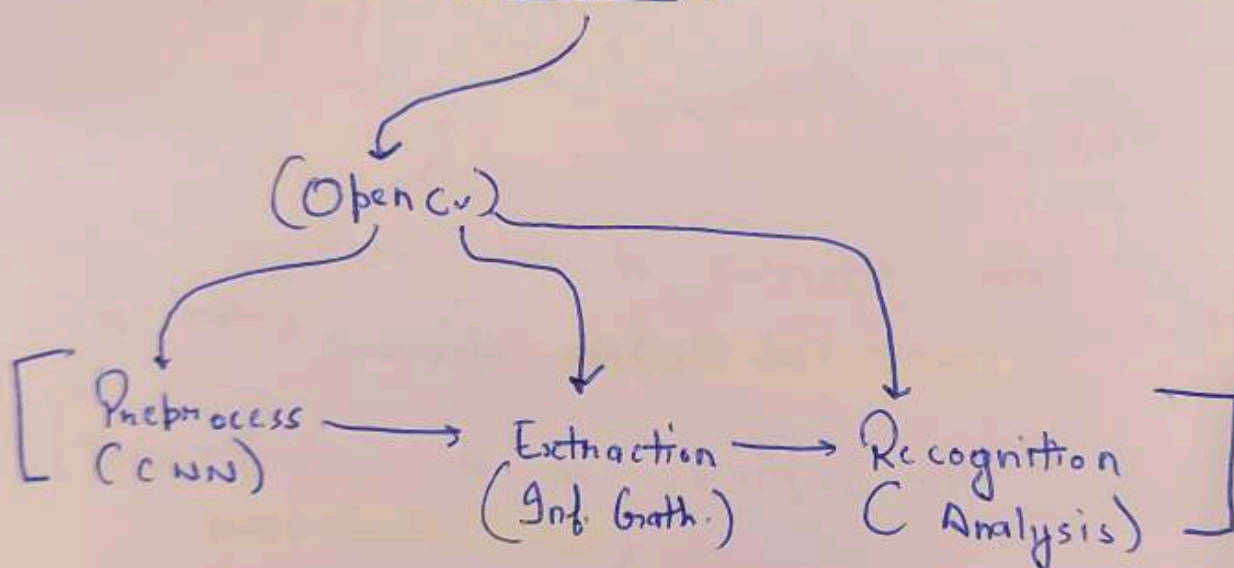Face Authentication System → (CSE 3rd Year) (minor)

Database → Sqlite 3

Face detection → OpenCv (cv2) ┐
                              ├→ libraries Used
Classifying facial features → Numpy ┘
        [Matrices]
             ↓
        (OpenCv)
      ↙   ↓   ↘

[Preprocess → Extraction → Recognition]
  (CNN)   (Inf. Gath.)   (Analysis)

IDE's Used → Pycharm IDE (3.7)
            (SQL)

For detecting Faces → (Cascade Classifier)
                           ↓
                    Extension — (haarcascade_frontalface_default.xml)

* <u>Extension use</u> → (Color img
                              ↓
                          Grey Scale)

Z
(Scaling   → x (height)
  factor)
                   → y (width)

Face will be Converted into
a matrix → with ==default Id's → '0'==

(Those features to be identified will be
==marked as '1'==)
                        ↓
                 (Train Dataset)

faces[ ]   Ids[ ]

(Images will be conv. to ==Int.==)

⋆⋆⋆ [These Id's (Printed)]