

BATCH
LESSON
DATE
SUBJECT

BATCH 168 DATA SCIENCE

DEEP LEARNING

31.01.2024

SUBJECT: VIOLA JONES

techproeducation



















2001

Paul Viola

Michael Jones

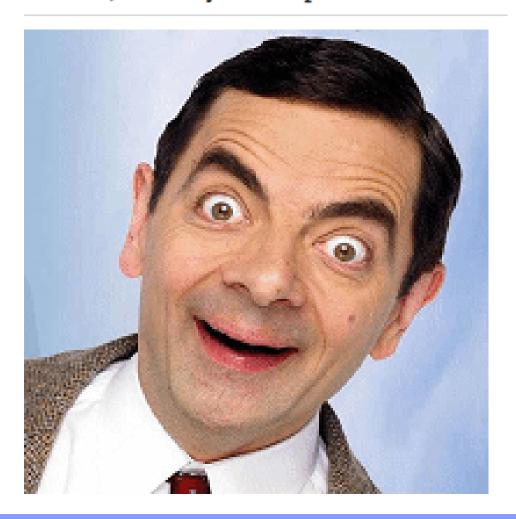




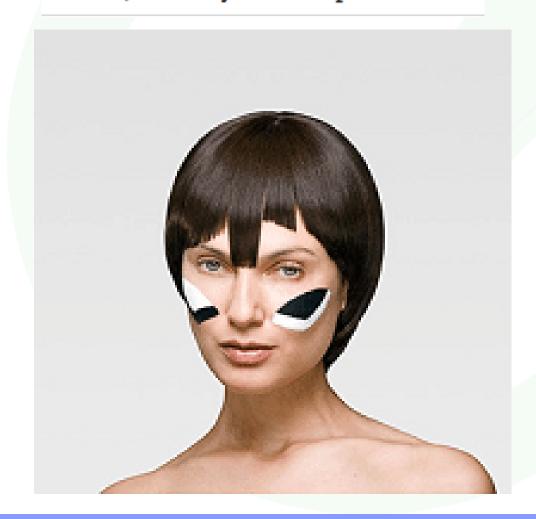


COMPUTER VISION

Viola Jones Başarılı Tespit Adımları



Viola Jones Başarısız Tespit Adımları





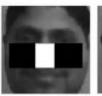






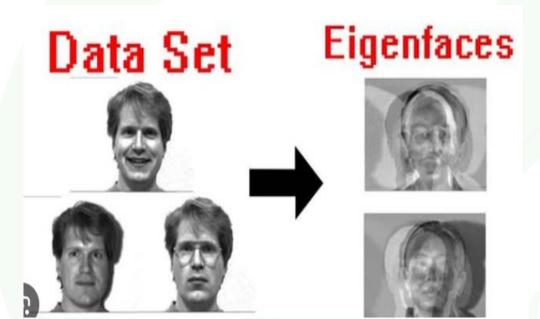
This Haar-like feature identifies the eye region

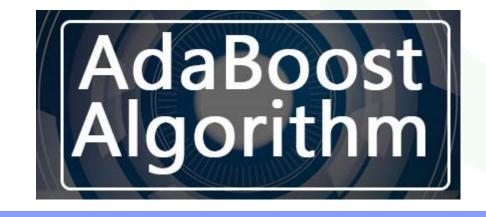






DESTRUCTION OF THE SECOND







The Viola-Jones Algorithm



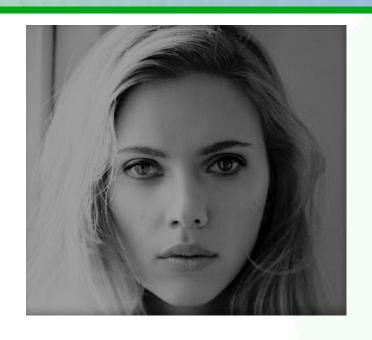


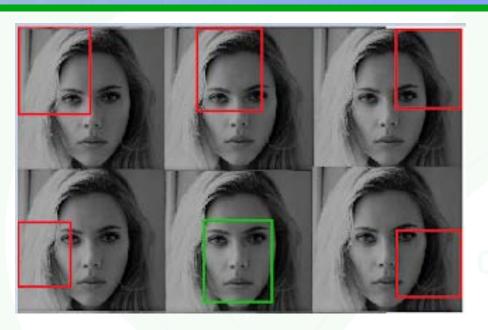
Training

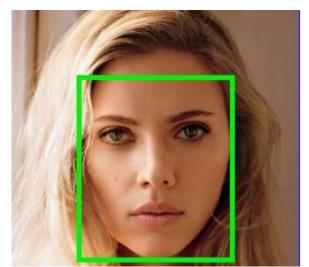
Detection



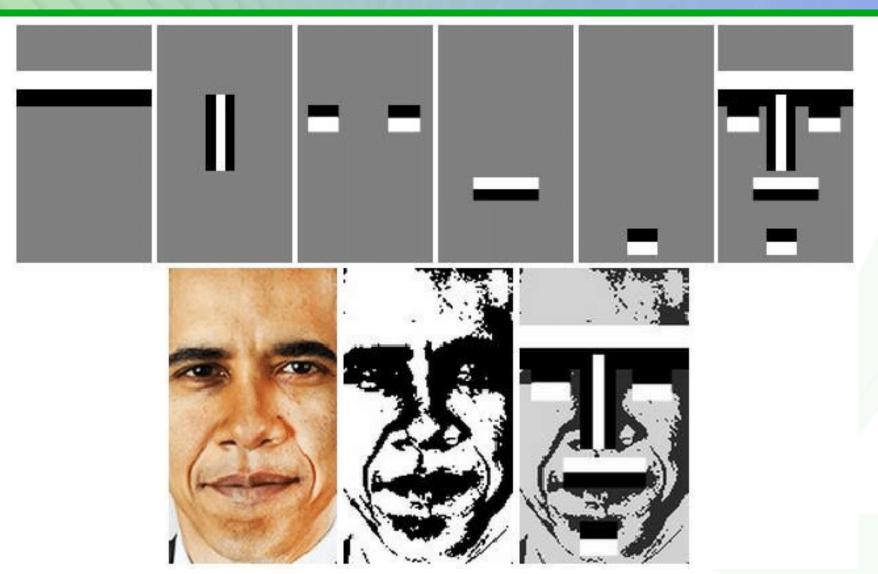






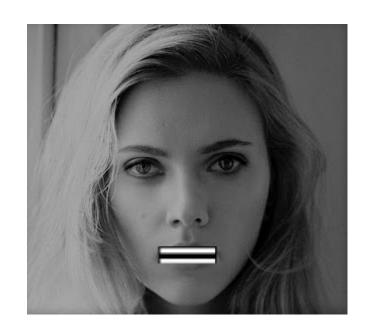


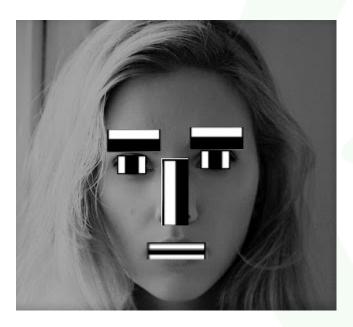


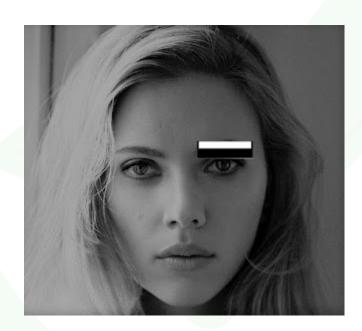




HAAR-LIKE



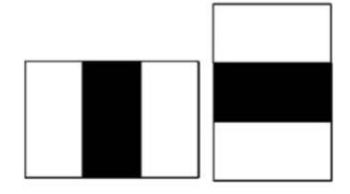




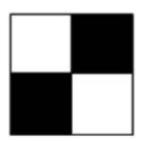




Edge Features

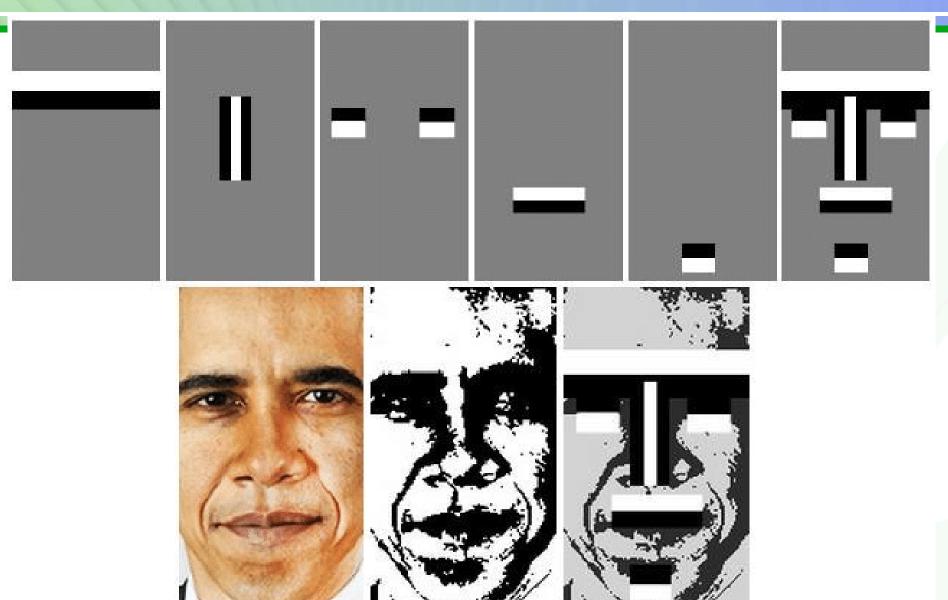


Line Features



Four-rectangle Features



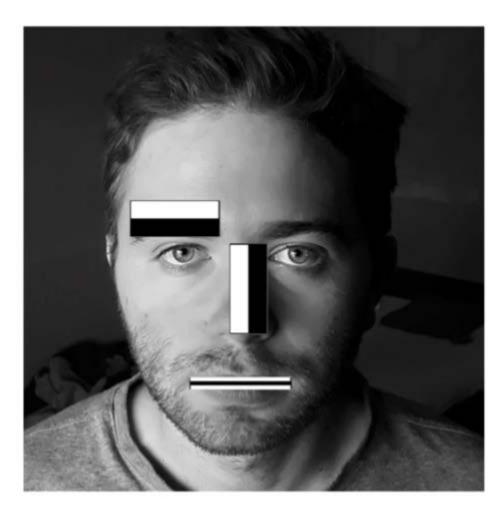


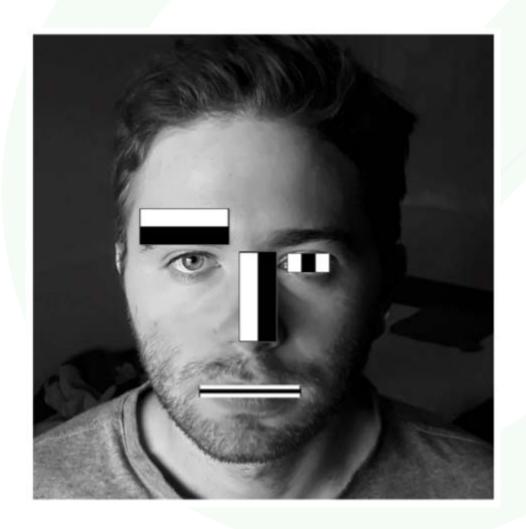




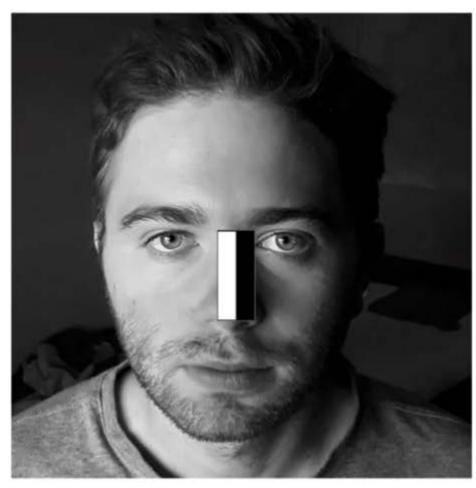




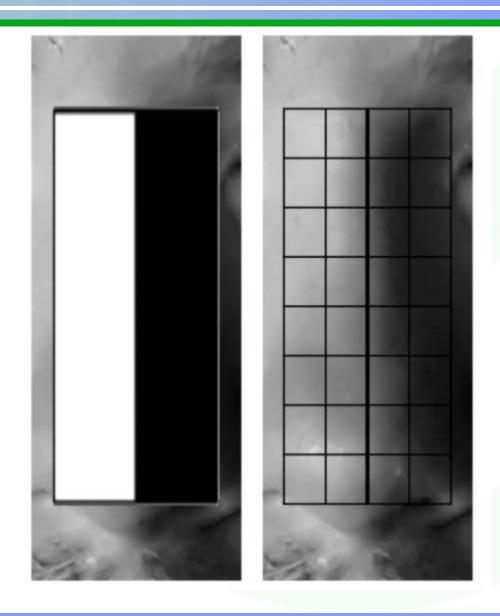








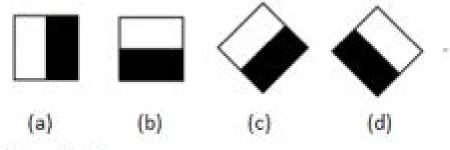
"JD"



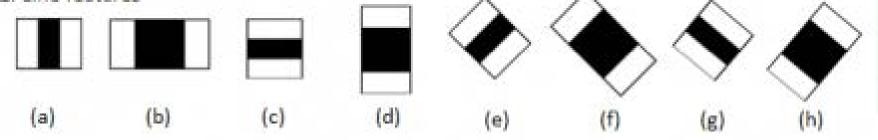


HAAR-CASCADE

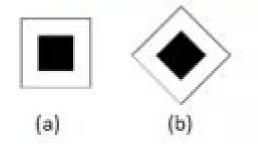
1. Edge features



2. Line features



3. Center-surround features





HAAR-CASCADE

