Multimodal Sentiment Analysis Schema

Datas Features Output First Impression **Facial Analysis** Manual Stabi. Gestures Pose Audio **Text Analysis** Hire? V2 10'000 videos Sad Fear Anger Surprise Disgust Neutral Glob Def. Open Valence Extrav Open. Cons. Sex Нарру Up Down Arousal Nevro. Agrea 15 sec. each **Proba** Big 5 Personality Probability of Р Р Р Р Р Р Р Р Р Р Р employment MP4 **TXT** Output Distance Measure From database · Sum of absolute value of Data Types: variations of facial emotions • I: Integer probabilities B: Boolean Given Artificial Neural Network Convolutional Neural Network Continuous Hidden Markov Models SVM, KNN, Signal processing • **F** : Float Self Trained with open images Self Trained with personal images Self Trained with open sounds Pre-trained • **P** : Proba · Per image, aggregated 50% weight on our database · Per image, aggregated Aggregated · Normalized for length of video We are evaluating the potential pyAudioAnalysis library Aggregated FaceClassification library FingersDetection library PersonalityDetection library Convolutional Neural Network · Self Trained with personal images · Per image, aggregated · Normalized for length of video · OpenCV and OpenPose libraries django