# Projects

### Face Recognition

Code:  <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/FaceRecognition-python>

Demo: <http://127.0.0.1:8000/index/> (Local Machine)

Libraries Used: Tensorflow, Opencv

Base Paper: <https://github.com/kpzhang93/MTCNN_face_detection_alignment/blob/master/paper/spl.pdf>

### Document Similarity

Code: <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/DocumentSimilarity-Python>

Demo: <http://192.168.0.231:7070/>

### Keyword Extraction

Code: <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/KeywordExtraction>

Demo:

### QA (NLP)

Code: <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/QA-Python>

Demo: <http://192.168.0.231/check/>

Named Entity Recognition(ORG):

Code: [file:///C:/Users/abhijith.m/Projects/ner\_retrain/fer\_retrain/](file:///C:\Users\abhijith.m\Projects\ner_retrain\fer_retrain\)

http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/\_git/InstitutionIdentification

Document Tagging:

Code: None

# Analysis

### Word2Vec (Resume Classifier)

Code: <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/Word2Vec-Python>

### Emotion Analysis from Video

### Context Based Sentiment Analysis

### Document Summarizer

C:\Users\abhijith.m\0 zerone\NLP\github\Natural-Language-Processing-Tutorials-master\NLP\_with\_SpaCy

### Named Entity Recognizer (Retrainable Model)

[file:///C:/Users/abhijith.m/0%20zerone/NLP/github/Natural-Language-Processing-Tutorials-master/NLP\_with\_SpaCy/Training%20the%20Named%20Entity%20Recognizer%20in%20SpaCy.ipynb](file:///C:\Users\abhijith.m\0%20zerone\NLP\github\Natural-Language-Processing-Tutorials-master\NLP_with_SpaCy\Training%20the%20Named%20Entity%20Recognizer%20in%20SpaCy.ipynb)

Named entity all

<http://tfs2013.zerone-consulting.in:8080/tfs/tfs-2013%20default%20project%20collection/_git/NER_ALL>

Image2Json – Table detection, OCR

<https://answers.opencv.org/question/63847/how-to-extract-tables-from-an-image/>

<https://github.com/lxj0276/tableDetect>

# Local File

## Gender & age classifier – resnet:

[file:///C:/Users/abhijith.m/0%20zerone/image%20procesing/resnet/face%20webcam/Gender-Recognition-and-Age-Estimator-master/](file:///C:\Users\abhijith.m\0%20zerone\image%20procesing\resnet\face%20webcam\Gender-Recognition-and-Age-Estimator-master\)

## Image AI – resnet training API:

[file:///C:/Users/abhijith.m/0%20zerone/image%20procesing/resnet/ImageAI/zerone%20facedetection/](file:///C:\Users\abhijith.m\0%20zerone\image%20procesing\resnet\ImageAI\zerone%20facedetection\)

## Peple counting –

[file:///C:/Users/abhijith.m/0%20zerone/image%20procesing/people%20counter/](file:///C:\Users\abhijith.m\0%20zerone\image%20procesing\people%20counter\)

## Face recognition –

[file:///C:/Users/abhijith.m/0%20zerone/Django/0%20zerone/face%20recognition/](file:///C:\Users\abhijith.m\0%20zerone\Django\0%20zerone\face%20recognition\)

## Azure emotion recognition:

[file:///C:/Users/abhijith.m/0%20zerone/assets/13%20opencv/opencv.ipynb](file:///C:\Users\abhijith.m\0%20zerone\assets\13%20opencv\opencv.ipynb)

## Chatbot-memn2n:

[file:///C:/Users/abhijith.m/0%20zerone/Django/memn2n/](file:///C:\Users\abhijith.m\0%20zerone\Django\memn2n\)

word2vec – tensorflow:

[file:///C:/Users/abhijith.m/0%20zerone/assets/0%20deep%20learning/NLP/Word2vec-master/](file:///C:\Users\abhijith.m\0%20zerone\assets\0%20deep%20learning\NLP\Word2vec-master\)

github: <https://github.com/nikhilroxtomar/Word2vec>

face\_recognition – inceptionv3 pretrined

[file:///C:/Users/abhijith.m/0%20zerone/image%20procesing/Deep%20learning/face-recognition-master/](file:///C:\Users\abhijith.m\0%20zerone\image%20procesing\Deep%20learning\face-recognition-master\)

## ChatBot

My PC: <file:///D:/AI/DeepPavlov-master/examples/gobot_extended_tutorial.ipynb>

NLP

1. Keyword extraction (rake)
2. Document similarity (doc2vec)
3. Semantic search (word2vec)
4. Named entity identifying from a question (for PSO)
5. Customizing doc2vec – version 2 in progress
6. Context Based Sentiment Analysis
7. Document Summarizer
8. Named Entity Recognizer (Retrainable Model)

Video / Image

1. Face recognition
2. Unique face counting
3. Emotion analysis
4. Classifying age/gender
5. Image to Json (scanned doc to html)
6. Image Resolution Increaser (low clarity image to high clarity image)
7. Action recognition (Analysis)
8. Image classifier
9. OCR

# In my system

Document classification:- [file:///D:/AI/NLP/movie-plots-by-genre-master/ipynb\_with\_output/](file:///D:\AI\NLP\movie-plots-by-genre-master\ipynb_with_output\)

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| --- | --- | --- |
|  | Project Name | Git url |
| Abhijith M | Named entity recognition | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/InstitutionIdentification> |
|  | QA | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/QA-Python> |
|  | Document Similarity | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/DocumentSimilarity-Python> |
|  | Emotion Analysis | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/EmotionAnalysis> |
|  | FaceAnalytics | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/FaceRecognition-python> |
|  | Invoice Line Item prediction | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/InvoiceLineItemPrediction> |
|  | Keyword Extraction | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/KeywordExtraction> |
|  | Object Recognition | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/ObjectRecognition> |
|  | Sentiment Analysis | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/SentimentAnalysis> |
|  | Text Summarization | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/TextSummarization> |
|  | Word2Vec | <http://srv1:8080/tfs/TFS-2013%20Default%20Project%20Collection/_git/Word2Vec-Python> |
|  | Document Tagging | None |
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