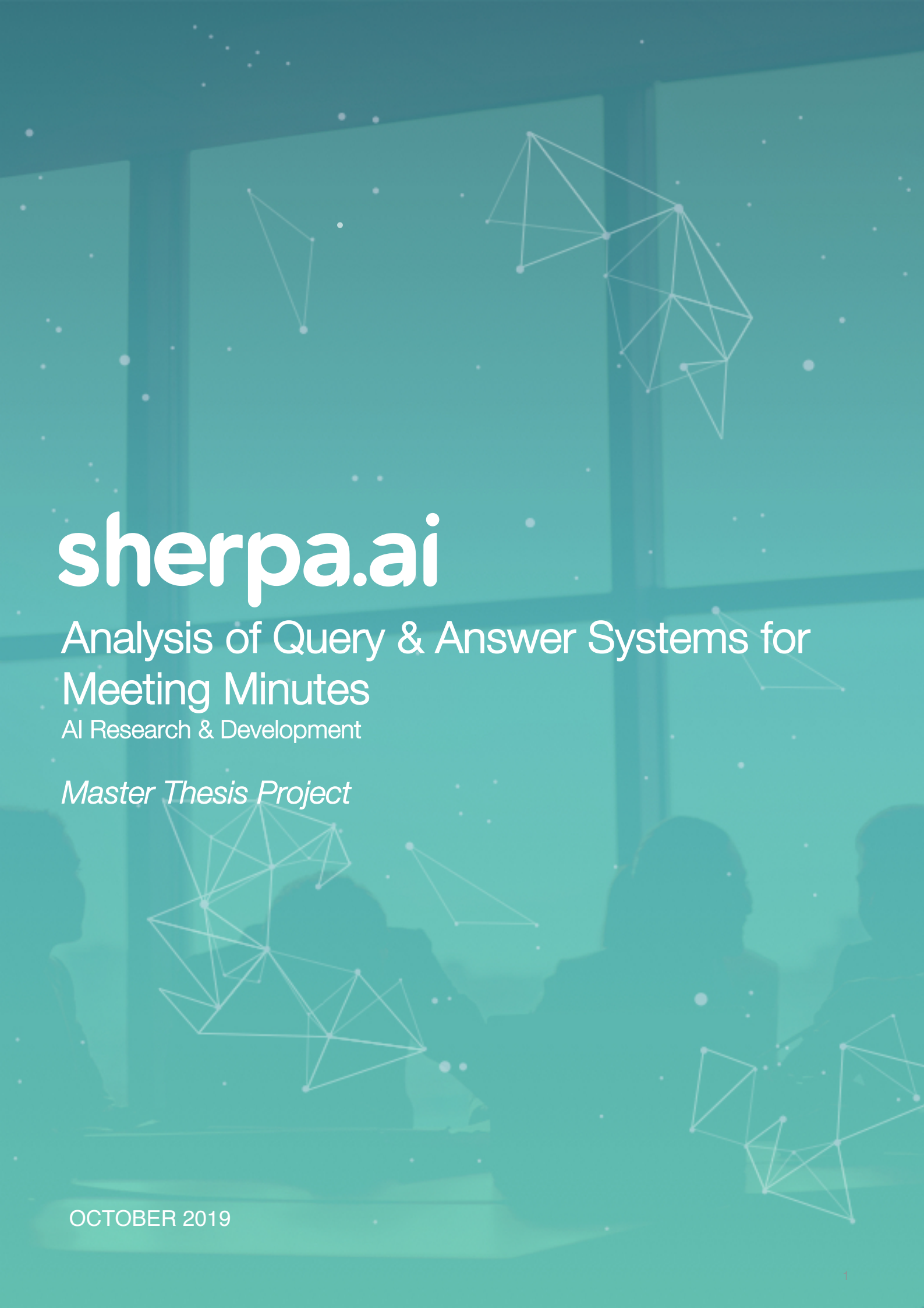

sherpa.ai

Analysis of Query & Answer Systems for Meeting Minutes

AI Research & Development

Master Thesis Project

OCTOBER 2019

Proposers and Contact Info (Academic and Industrial Mentoring)

- Dr. Miguel A. Veganzones (Sherpa AI Director): ma.veganzones@sher.pa
- Prof. Eneko Agirre (IXA Team, EHU/UPV): e.agirre@ehu.es

Project Description and Goals

Nowadays, it is possible to automatically have a Meeting Minutes by audio-recording a meeting and, later on, using Speech To Text (STT) techniques to translate the recording to a text document. Moreover, NLP techniques can be employed to summarize these Meeting Minutes in order to provide a potential interested reader with the most significant information discussed on the meeting and, probably, the actions to follow. However, the amount of information about the meeting available to the potential reader is fixed by the quality and length of the summary. **The aim of this project is to allow a potential interested user to find any information of interest in the Meeting Minutes by directly asking about it.**

Question Answering (Q&A) is a computer science discipline within the fields of information retrieval and natural language processing, which focuses on building systems that automatically answer questions posed by humans in a natural language. Q&A Systems can be defined exploiting Knowledge Databases or by means of Information Retrieval (IR), that is, finding text segments in a document that are relevant for the posed question. Recently, state-of-the-art Neural Language Models have been applied to develop IR-based Q&A Systems. **The project consists of exploring Neural Language Models for IR-based Q&A systems to answer any potential query about Meeting Minutes documents.**

Working Plan & Expected Results

1. Exploratory analysis of public benchmark Meeting Minutes datasets
2. Experimental design of neural language models for IR-based Q&A Systems
3. Report

Requirements

Basic knowledge of:

- NLP
- R / Python

Interest on:

- Neural Language Models
- Question Answering Systems

Benefits and Practical Information

- Funding: 650€ / Month
- Duration: 3 – 6 Months
- Location: Aula SHERPA, Fac. Informática San Sebastián

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