



UNIBERTSITATE HEDAKUNTZAKO IKASKETAK

INTRODUCTION TO LANGUAGE TECHNOLOGY APPLICATIONS (ILTAPP) (6. ED.)

INFORMAZIO OROKORRA

IKASTURTEA: 2023/2024

ARLOA: Ikasketa Teknikoak

KREDITUAK: 3,00 ECTS kreditu (*)

MATRIKULA TASA: 180,00 € (Asegurua: 4 €, galdetu)

ARDURADUN AKADEMIKOA: Rodrigo Agerri Gascón

AURKEZPENA

Language Technology is increasingly present in many of the applications we use in our everyday activities (Google Home, Amazon Alexa, Siri, Google Translate, Grammar checkers, Google search engine, ChatGPT...) and the need of experts that can develop applications based on Language Technology is an ever growing demand both in the industry and academia. This course will introduce the most commonly used techniques to build applications based on Language Technology. Thus, the attendees will learn how to apply techniques such as document classification, sequence labeling, as well as vector-based word representations (embeddings) and pretrained language models for core applications such as Opinion Mining, Named Entity Recognition, Fake News Detection or Question Answering. The course will have a practical focus (laboratories and practical tasks) learning to use readily available LT toolkits (Spacy, Flair, HuggingFace Transformers) based on machine and deep learning in a multilingual and multi-domain setting. The aim is to allow attendees to acquire the required autonomy to solve practical problems by applying and developing Language Technology applications. The course will be taught in English.

ZURE BILA GABILTZA

This course is targeted to graduate students and professionals from a range of disciplines (linguistics, journalism, computer science, sociology, etc.) that need an applied introduction to Language Technology. This involves identifying the required linguistic resources, appropriate tools/libraries and techniques with the aim of acquiring the required autonomy to solve practical problems by



applying and developing applications based on Language Technology in different and creative ways.

IRTEERA PROFESIONALAK

Language Technology is nowadays a basic skill for many professional jobs in a range number of disciplines, related, but not only, with technological positions. These include professionals from a range of disciplines (linguistics, journalism, computer science, sociology, etc.) that need an applied introduction to Language Technology. It can also help as an introductory course before a full official master programme.

BALDINTZAK

For the practical content (coding exercises) some experience in python programming is recommended. Previous attendance to the Deep Learning for Natural Language Processing course is might be useful although not required.

IRAKASKUNTZA

HASIERA ETA AMAIERA DATA: 2024/01/31-tik 2024/02/28-ra

EMATEKO TOKIA: Híbrido

HIZKUNTZA: Ingelesa

INFORMAZIOA/IZEN-EMATEA

SAIL EDO ORGANO ARDURADUNA: Hizkuntza eta Sistema Informatikoak

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(*) ECTS kreditu batek 25 orduko balioa du.