

Ibrahim Khebour

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Education

Colorado State University

PhD in Computer Science

August 2022 – Present

Fort Collins, Colorado, USA

Tunisia Polytechnic School

Multidisciplinary Engineering degree

Sep 2019 – June 2022

Tunis, Tunisia

Preparatory Institute for Engineering Studies of El Manar

Ranked 36th out of 2000 in the national exam

Sep 2017 – June 2019

Tunis, Tunisia

Research Experience

Graduate Research Assistant

Colorado State University, SIGNAL lab

- Using Multi-modal data for different tasks
- Testing different LLMs

August 2022 – Present

Fort Collins, Colorado, USA

Graduation Internship

Colorado State University, SIGNAL lab

- Developing a binary classification model
- NLP data processing and augmentation

February 2022 – June 2022

Fort Collins, Colorado, USA

Data Science Internship

Datagram

- Working within a team of data scientist for a summer internship
- Performing a proof of concept

June 2021 – August 2021

Tunis, Tunisia

Projects

Common Ground Tracking in Multimodal Dialogue

Using Bert, RoBERTA, ALBERT, and other modalities to detect shared knowledge

LREC-Coling 2024

under review

Detection of collaborative states using multimodal features

Using Bert, opensmile and skeletal data for multi label classification

AIED 2023

Loanword detection

Using MBERT and XLM as well to detect shared words between two languages

COLING 2022

How Good is Automatic Segmentation as a Multimodal Discourse Annotation Aid? IWCS 2022

Comparing automatically segmented speech using Google and OpenAI's tools

Semantic Distance

Using Universal Sentence Encoder and Doc2Vec to compare retail products

Machine learning for background subtraction

Testing ML algorithms for a class project as an initiation into AI

Specialized Skills

Programming Languages: Python (Expert), C/C++ (Intermediate), R (beginner)

Mathematics: Calculus, Linear algebra, Probability, Statistics, ...

Communication: Arabic, French, English

Adaptability: Love learning new things