

# Cover Letter



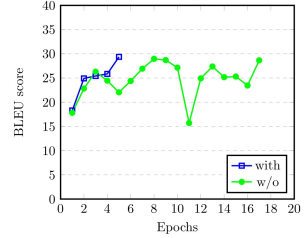
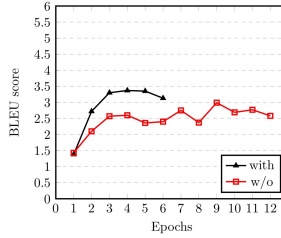
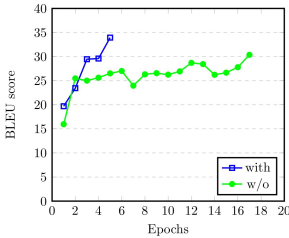
Hi, I'm Murali Manohar and this is my illustrated cover letter.



Well, I'm a Masters student in Computational Linguistics in Europe.



## Research in Machine Translation

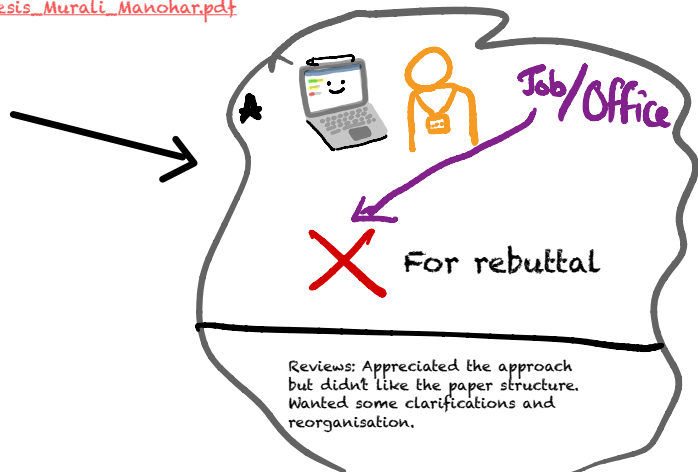
Long story short, I was interested in building tools for low-resource languages. So, my undergrad thesis was on Unsupervised Machine Translation.



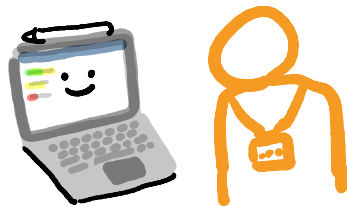
Improved results with  my proposed approach, naively called as  
with  Modified back-translation approach

Along with this approach, we also tried other approaches. We can talk about them when we meet. Or you could simply look at my thesis. Link below [https://gitlost-murali.github.io/blogs/thesis/Undergradthesis\\_Murali\\_Manohar.pdf](https://gitlost-murali.github.io/blogs/thesis/Undergradthesis_Murali_Manohar.pdf)

Submitted to EMNLP 2019.



# My time in the Industry (2019-21)

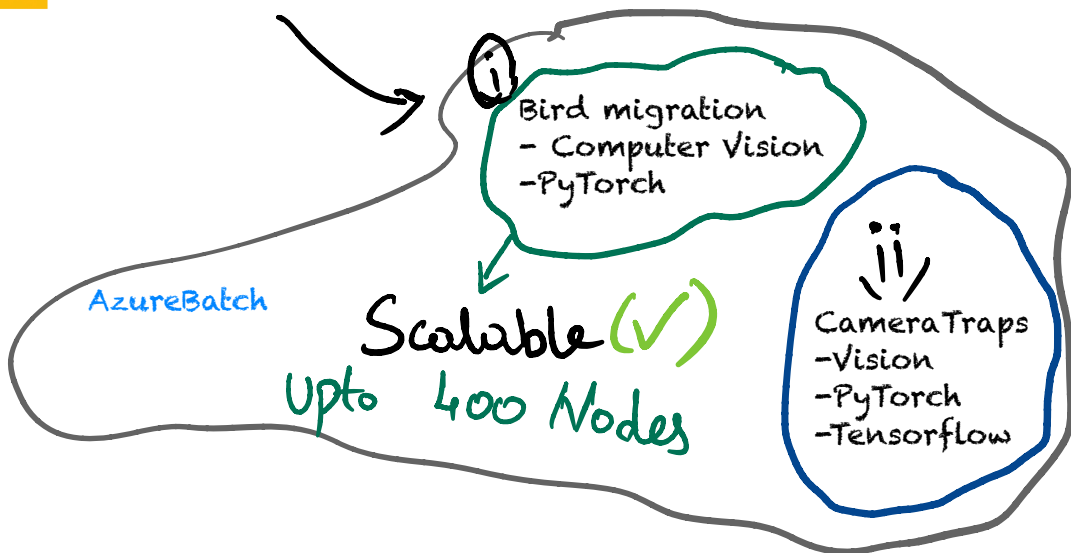


Worked for the following clients:



## Microsoft

2019-2020



## NOVARTIS

2020-21

Engineering (Ops)

(✓)

8 models in inference.  
Refactored code to reduce the runtime by 10-12x

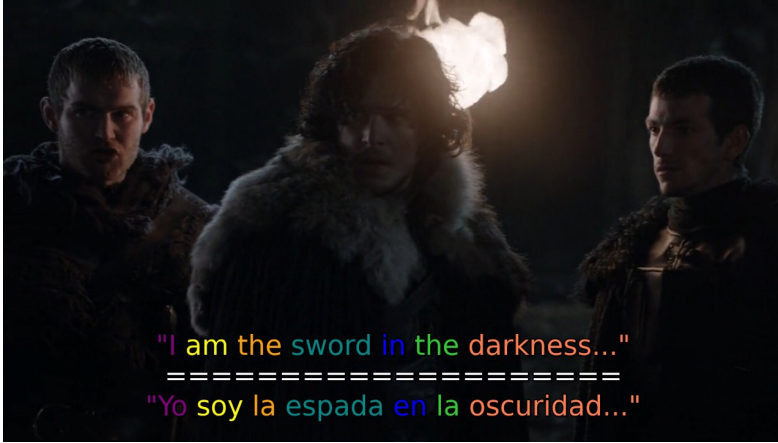
Patient 127 has a medical history of Diabetes.

Removing sensitive information

- NLP
- PyTorch
- spaCy
- UMLS, SciSpacy, AllenNLP, etc.

Projects done purely out of curiosity.

## 1. Proposal to Duolingo and Netflix



Make language-learning easy

- Translation
- Alignment
- Colouring alignments

Proposal available as a private article.  
Given, on demand.

## 2. My take on soap-operas in India: Analysing the importance of background-music in soap-operas. Proposal to STAR India media group

◀ Home

Audio\_Task ID\_1



Video\_Task ID\_1



→ I made an interactive demo too!!  
Available as a public article.

<https://blog.gramener.com/analyzing-soap-operas-with-audio-analytics/amp/>

# Some work on Xlingual NER

## Transferring Named Entities from Es -> En

Selected **389th** sentence

Felipe VI: reinar entre Pedro y Pablo → El papel de la Familia Real. El **Monarca** **PROFESION** se ha volcado en la pandemia pese a que el Gobierno le ha dado perfil bajo <https://t.co/WvO4v4XfLo>

Performed on  
ProfNER  
(Professions-NER)

**Target: English Sentence with transferred Tags**

Felipe VI: reigning between Pedro and Pablo → The role of the Royal Family. The **Monarch** **PROFESION** has thrown himself into the pandemic despite the fact that the Government has given him a low profile <https://t.co/WvO4v4XfLo>

Selected **1863th** sentence

Ignacio Escolar y Antonio Maestre, esos **pseudo periodistas**, **FIGURATIVA** se han quedado solos en la "titánica" labor de defender la que es la peor gestión mundial de la pandemia, con diferencia. <https://t.co/LbXt54z8KK>

**Target: English Sentence with transferred Tags**

Ignacio Escolar and Antonio Maestre, those **pseudo journalists**, **FIGURATIVA** have been left alone in the "titanic" task of defending what is by far the world's worst management of the pandemic. <https://t.co/LbXt54z8KK>

I'm always open to learning. All I have is time. With time & effort, I can complete any given work. I always follow an advice given to me in my first research internship:  
FAIL FAST.

You can reach me at

kmanoharmurali@gmail.com

+34658419318

+919959440709

Twitter: gitlostmurali