

# Ignacio Tampe

COMPUTER SCIENCE ENGINEER (M.Sc. EQUIVALENT)

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## Skills

- Programming** Python, C/C++, C#, SQL, R, Docker  
**Frameworks** Spark, Django, Gensim, Tensorflow, PyTorch, Sklearn, Pandas, NLTK, Plotly, Airflow, AWS, Grafana  
**Languages** Spanish Native, English Fluent (TOEFL iBT 110/120, IELTS overall 8.0)

## Experience

### Microsoft

DATA & APPLIED SCIENTIST II

Vancouver, Canada

Sep. 2021 - Feb. 2023

- Design and develop end to end ML and data science solutions for the Clarity Insights Team.
- Successfully designed, developed and deployed a feature that generates automatic insights digests for customers with personalized recommendations and key metric changes, reaching over 300,000 users.
- Handle Big Data (30TB) queries on HPCs and Spark with analysis performed using python and C#, generating reports and visualizations to internal stakeholders, analyzing user retention and behaviour.

### Uber

DATA SCIENTIST

Santiago, Chile

Dec. 2020 - Sep. 2021

- Implemented a deep learning forecasting tool for time series analysis to predict demand and capacity of the operation in the groceries team.
- Perform MLops to deploy and serve models, with continuous integration using Airflow, SageMaker and Tensorflow Serving.
- Collaborated with other data scientists to design a user segmentation and recommendation system

### Dalhousie University

VISITING RESEARCHER

Halifax, Canada

Jan. 2020 - Dec. 2020

- Researching Automatic Summarization of online news discussions using a transformer architecture.
- Implemented a BERT-based Transformer that summarizes comments with unsupervised learning.
- Work culminated in a paper accepted to *Intelljysis* 2021 [1].

### LeyTransparente - Clustea

SCRUM MASTER & DATA SCIENTIST

Santiago, Chile

Mar. 2019 - Mar. 2020

- Designed a technique able to detect conflicts of interest in congress using NLP, NER and Word Embeddings.
- Led a multidisciplinary team of five consisting of data scientists and SWEs to design a platform to serve this NLP model.

### European Southern Observatory (ESO)

SOFTWARE ENGINEER INTERN

Paranal Observatory, Chile

Jan. 2019 - Feb. 2019

- Develop a software tool to handle and schedule technical time and repairs for telescopes. Achieving improved efficiency, consistency and scalability compared to the previous process.

### Universidad Técnica Federico Santa María

INSTRUCTOR & TEACHING ASSISTANT

Santiago, Chile

2016 - PRESENT

- NLP Instructor in the Data Science Diploma
- TA for Deep Learning, User Interface Design, Non-Relational Databases, Data Structures

## Education

### Universidad Técnica Federico Santa María

COMPUTER SCIENCE ENGINEER (M.Sc. EQUIVALENT) (2 YEARS TRACK)

Santiago, Chile

Mar. 2019 - Nov. 2020

- Relevant courses: Deep Learning, Text Mining, Business Intelligence, Pattern Recognition, Image Processing.
- Thesis: Neural Abstractive Unsupervised Summarization of Online News Discussions
- GPA 80/100. Ranked 1st. of 20 graduates

### Universidad Técnica Federico Santa María

B.Sc. IN COMPUTER SCIENCE AND ENGINEERING (4 YEARS TRACK)

Santiago, Chile

Mar. 2015 - Dec. 2018

## Honors & Awards

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|------|---|--------|
| 2022 | <b>School of Engineers</b> , Best graduated student   | Chile  |
| 2021 | <b>Universidad Técnica Federico Santa María</b> , Best Computer Science graduated student                         | Chile  |
| 2019 | <b>Emerging Leaders in the Americas Program</b> , EduCanada Research Scholarship. 5500 USD                        | Canada |
| 2019 | <b>Seeds for the Future</b> , Huawei Scholarship, consisting in a trip to China to visit and learn on Huawei's HQ | China  |

## Publications

- [1] I. Tampe, M. Mendoza, and E. Miliós, *Neural abstractive unsupervised summarization of online news discussions*, 2021. arXiv: 2106.03953 [cs.CL].