
Frederido Vicente PhD Student in Computer Science

fm.vicente@campus.fct.unl.pt
+351 910754504
[linkedin.com/in/frederico--vicente/](https://www.linkedin.com/in/frederico--vicente/)
Lisbon, Portugal

I'm a passionate PhD Student specializing in Machine Learning. I find leveraging uncertainty in machine learning fascinating because it enhances the reliability of learning mechanisms. I have a strong track record in pioneering NLP pipelines for real-world projects, and my research interests encompass Bayesian Inference, Optimization, Federated Learning, Cloud Computing, Privacy-constrained Learning, NLP, and MLOps. I'm committed to advancing the boundaries of machine learning and its practical applications.

Experience

CO-FOUNDER

JUL 2023 txtReplay Remote
OCT 2023 Head of Product and responsible for building the backend of a Text Editor system, which allows users to replay the creation of digital documents.

MACHINE LEARNING ENGINEER

MAR 2023 GetParrot.ai Remote
AUG 2023 Responsible for designing a machine learning pipeline to rank emails based on importance/urgency concepts and create tasks based on them to reduce email clients' usage overhead.

MACHINE LEARNING ENGINEER

OCT 2022 Legalreview.ai Remote
OCT 2023 Responsible for designing an NLP Pipeline process to review and compare Legal Documents: Implemented data processing mechanisms to process legal files and make them searchable; implemented custom algorithms and used both Small and Large Language Models (GPT-3, ChatGPT APIs) to extract and generate language. Created a Cloud infrastructure to deploy the NLP process, using AWS services, FastAPI and Beam Cloud.

MACHINE LEARNING ENGINEER

MAY 2021 AMAZON Alexa Prize Taskbot Challenge Remote
MAY 2022 Developed along with a team a multimodal Chatbot to aid ALEXA users on Recipes and DIY tasks. Won 2nd Place. Worked on Question Answering (extractive - BERT like models & generative - BART like models). Responsible for creating a fun facts Knowledge Base; Introduced curiosity facts over conversation flows using both Sentence Transformers and more lightweight machine learning techniques; Used AWS Services, such as EC2, S3, CloudWatch, Lambda, CodePipeline.

TEACHING ASSISTANT

MAR 2021 NOVA FCT Almada/Remote
JUL 2021 Taught programming principles, Python and SQL to University students.

Skills

Software

Python
Pytorch
Tensorflow
FastAPI
SQL
AWS
CI/CD

Languages

Portuguese (Native Speaker)
English (C2 Proficiency)

Education

2023 – PRESENT
Computer Science, PhD.
NOVA FCT

2020 – 2022
Computer Science, MS.c.
NOVA FCT

2017 – 2020
Computer Science, BS.
NOVA FCT

Publications

- Twiz: The Multimodal Conversational Task wizard (<https://dl.acm.org/doi/abs/10.1145/3503161.3547741>)
- Twiz: A conversational Task Wizard with multimodal curiosity-exploration (<https://www.amazon.science/alex-prize/proceedings/twiz-a-conversational-task-wizard-with-multimodal-curiosity-exploration>)
- The Wizard of Curiosities: Enriching Dialogues with Epistemic Fun-facts (https://sigdialing2023.github.io/paper_sigdial75.html)