MARGARIDA CAMPOS

(+351) 91 606 96 48 | margarida.moreira.campos@gmail.com | LinkedIn | GitHub

SUMMARY

Data Scientist and Teacher with a lifelong passion for education. Having been a tutor of Mathematics since the age of 18, I believe a good teacher has the power to change students lives - not only by making the complex simple, but by teaching them how to learn.

TECHNICAL SKILLS

- **Machine Learning:** Experience with numerous algorithms applied to regression and classification problems in different business areas. Deep knowledge of the statistical theoretical basis of models.
- **Natural Language Processing:** Semantic and Syntactic analysis,feature extraction and engineering with text data. Probabilistic and NN model approaches to text classification problems. Building of QA systems using Transfer Learning with Transformers.
- **Deep Learning:**Supervised and unsupervised problems with MLPs,RNNs with GRU and LSTM cells and BNNs. Application of active and reinforcement learning with Neural Networks
- **Optimization Algorithms:** Implementations and experiments with Simplex, Gradient Descent, Newton and Quasi-Newton methods among others
- **Numerical Methods:** Methods for numerical integration, interpolation and function approximation
- **Probability and Statistics:** Solid knowledge acquired during years of tutoring, consolidated in the context of ML tasks
- **R and Shiny:** Proficiency in R obtained by working for over 5 year with the tool for the entire pipeline of data manipulation. Developed several web applications in R's Shiny for data visualization and model monitoring
- **Python:** Strong experience in data wrangling, machine learning modeling, deep learning and Transformers with both Tensorflow and Pytorch. Some experience with graph data structures and algorithms
- **Calculus Linear Algebra:** Proficiency in Differential and Integral Calculus and Linear Algebra, consolidated by years of teaching college-level students; including its real life applications.

PROFESSIONAL EXPERIENCE

Toptal   **Remote**
Freelance Data Scientist   *Dec 2021 to present*

- Worked on healthcare company building data model from scratch combining different sources of data
- Created ML-based confidence scores for data entries' fields

Associação Simbiose   **Lisboa**
President and Founder   *Jan 2021 to present*

- Founded the Association to change the culture of offering and requesting help in social impact projects
- Currently building a platform and mobile app to agilize the participation of volunteers in countrywide social initiatives
- Responsible for planning and managing the efforts and plans of the project, coordinating 12 people

Le Wagon   **Lisbon**
Lead Teacher of Data Science   *Sep 2020 to present*

- Taught over 10 batches, over 200 students, with 99% positive feedback
- Teacher of modules from Python essentials to Machine Learning pipelines and Deep Learning
- Led final Data Science projects of several students from idea to production
- Involved in the improvement of classes' content and pedagogical flow
- Developed from scratch all content for *Data4Business* workshop to engage students in Data Science

OutSystems   **Lisbon**
Data Scientist   *Jan 2018 to Sep 2020*

- Performed data analysis with different business units and data types
- Responsible for the communication and alignment with stakeholders, designed action plans and managed deadlines
- Implemented ML models on text data (Spam Model), financial time based data(Churn and Revenue Forecasts), website behavior and demographic data (Visits Propensity to Buy Classification Model)
- Responsible for the on-boarding and training of junior data scientist
- Continuous responsibility for researching innovative AI and ML solutions for internal applications

PiRQuadrado   **Lisbon**
Tutor (Full-Time)   *Feb 2014 to Sept 2018*

- High-school level Mathematics
- Linear Algebra
- Calculus
- Complex Analysis and Differential Equations
- Computational Mathematics
- Programming
- Topology
- Probability and Statistics

SCIENTIFIC RESEARCH

Research Scholarship **LASIGE - University of Lisbon**
Oct 2020 to May 2021
- Scholarship granted by FCT - Technology and Science Foundation
- Application graded 19/20
- Developed Biomedical QA system using Deep Learning to participate in the BioASQ challenge
- Proposed system won one of the test batches for exact QA
- Developed code is publicly available in Gitub, and being used by the research team
- Published paper "Post-processing BioBERT And Using Voting Methods"

EDUCATION

Masters in Data Science and Engineering **Instituto Superior Técnico**
17/20 *Sept 2019 to Sept 2021*
- Natural Language Processing (19/20)
- Machine Learning (18/20)
- Speech Processing (17/20)
- Thesis: Biomedical Question Answering using Deep Learning (19/20)

Bachelor in Applied Mathematics and Computation **Instituto Sperior Técnico**
13/20 *Sept 2012 to Jun 2017*
- Mathematical Logic (16/20)
- Programming (18/20)
- Topology (14/20)

High School in Science and Technology **Vergílio Ferreira**
18.5/20 *Sept 2009 to Jul 2012*
- Mathematics (20/20)
- Physics Chemistry (19/20)
- Biology Geology (18/20)

EXAMS

Graduate Record Examination (GRE)
Oct 2020
- Quantitative Reasoning (166/170)
- Verbal Reasoning (161/170)
- Analytical Writing (4/6)

Test of English as a Foreign Language (TOEFL) **114/120**
Nov 2020
- Reading (30/30)
- Listening (30/30)
- Speaking (29/30)
- Writing (25/30)

CONFERENCE PRESENTATIONS

- Speaker in Build Brigther Futures (2020) - *Microsoft*
  Invited to speak about the Data Scientist role
- Speaker in CLEF 2021
  Presenting paper "Post-processing BioBERT And Using Voting Methods for Biomedical Question Answering"
- Speaker in Future Works Tech Conference (2021) - *Landing Jobs*
  Data Analysis and Machine Learning Workshop

AWARDS

- Top Performer Award (2019) - *OutSystems*
  Awarded with a perfect score in the Year-End Global evaluation
- BioASQ Challenge Task B - Phase B (2021)
  System won one of the test batches
- Diploma of Academic Excellence (2021) - *Instituto Superior Técnico*
  Granted for the 2nd year of Data Science and Engineering Masters

EXTRACURRICULAR EDUCATION

- GARCH Models in R - DataCamp (2020)
- Practical Time Series Analysis - The State University of New York (2020)
- Information Visualization: Programming with D3.js - New York University (2020)
- Neural Networks Deep Learning - deeplearing.ai (2019)
- The Complete JavaScript Course - Udemy (2019)
- Anomaly Detection in R - DataCamp (2019)
- PowerBI Training - DevScope (2018)

OTHER SKILLS

Software   JavaScript,Excel,PowerBI,CSS.HTML5,Git
Languages English: professional proficiency. Portuguese: native. Italian: conversational. French: Conversational