

Tiago Miranda

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Education

- 🎓 **Masters Degree in Engineering and Data Science** - Instituto Superior Técnico, Lisbon, Portugal 2022 – now
 - Relevant coursework: Machine Learning, Deep Learning, Multivariate Analysis, Information Systems and Databases, AI and Decision Systems, Processing Big Data
 - Current Grade: 17/20
 - Previously enrolled in the Masters Degree in Engineering Physics at IST
- 🎓 **Bachelor Degree in Engineering Physics** - Instituto Superior Técnico, Lisbon, Portugal 2018 – 2022
 - Relevant coursework: Probabilities and Statistics, Programming, Computational Statistics, Computational Mathematics, Computational Physics, Statistical Physics
 - Grade: 14/20

🌐 Languages: fluent in Portuguese (native language) and English (Cambridge certificate of B2 level) and intermediate level in French (level A2.2)

Work experience

- First stage researcher (R1) at **Social Physics And Complexity Lab @ LIP** mar/2022 – sept/2022
 - Did research in the scientific subject of Computational Social Sciences in the framework of the EU-funded project “**FARE, Fake News and Real People – using big data to understand human behaviour**”
 - Analysed retweet cascades to study the spread of ideas on Twitter through the prism of complex networks
 - Member of a multidisciplinary international team that built a database from SNS urgent care and prescriptions data
 - Received a research scholarship by Fundação para a Ciência e Tecnologia (FCT)
- Tutored different subjects to underprivileged kids 2018 – 2023
 - Project developed with Jerónimo Martins’ scholarship from 2018 to 2022 and afterwards in a volunteering regime

Projects

- </> Biased New World - User’s consumption habits of entertainment and unconscious biases (Python)
 - Software with the Netflix and/or Spotify user’s consumption habits and individual biases
 - Recommendation algorithm that suggests different content than the one consumed by the user in order to broaden their horizons
- </> Insurance premium calculation (Python)
 - Calculation of a fair car insurance premium based on data of previous claim sizes and number of claims as well as in-depth analysis of individuals’ risk parameters
 - Problem solved in the ECMI Modelling Week 2023 held in Szeged, Hungary
 - Received a scholarship by the university to attend the ECMI Modelling Week to solve the problem at hand as part of an international team
- </> Other projects include a Fruit Ripeness Classifier to reduce food waste, a Video segmentation (clustering) pipeline of Giro d’Italia streaming data etc. that can be seen on my Website

Hard Skills

- </> Fluent in programming languages such as Python, R, C, C++. Experienced using Python libraries such as PyTorch, SciKit-Learn, NumPy, Pandas, OpenCV
- </> Experienced in database management using SQL
- Experienced in Microsoft Office, L^AT_EX

Accomplishments and awards

- Studied oboe at Cons. Música Calouste Gulbenkian for nine years completing level 5
- Composed and performed, solo and in an orchestra, in multiple theatres in Portugal: Casa da Música do Porto, Teatro Circo, Altice Fórum Braga etc.
- Achieved perfect score in the national exams of ‘Maths’ and ‘Physics and Chemistry’ finishing high school with an average of 19.5/20
- Received merit certificates in Cons. de Música Calouste Gulbenkian and Escola Secundária Carlos Amarante.