Edson Duarte

Data Scientist and Cloud Engineer

✉ edsonduarte1990@gmail.com
🌐 uatach.github.io

"I like being myself. Myself and nasty."
Brave New World by Aldous Huxley

Technical Skills

Advanced	Data Science (Python, scikit-learn, keras, tensorflow, numpy, scipy, bokeh), Data Engineering (ETL, ELT, Apache Airflow), Data Exploration (pandas, jupyter, Databricks, Apache Superset),
Intermediate	Cloud Engineering (GCP, Pulumi, Terraform, Azure, AWS), GNU/Linux (Arch, Ubuntu), Microservices (Java, Python, Spring, Quarkus, Docker, Kubernetes), Stream and Batch (Apache Spark, Apache Pulsar, Dataflow), Databases (Relational, Documents and Time-series)

Experience

Professional

2019 – present	**Lead Data Scientist, Chapter Lead and Software Engineer**, *Venturus*, Campinas, São Paulo, Brazil - Worked as Lead Data Scientist in a project for a Global Leader of the Payments sector in a Data Science solution and platform to enable insights on their operations. - Worked as Chapter Lead of Data Science helping the company nurture the culture of knowledge sharing and continuous learning of everything related to Data Disciplines. - Worked as a Software Engineer on the development of a payment processing distributed system using the microservices architecture, while also contributing to the general architecture, the application of agile methodology and test planning and deployment.
2018 – present	**Data Scientist**, *Numerai* - Participating in the main tournament using all 50 model slots. - Achieved a ROI of 140% during 2021 and a ROI of 75% during 2020.
2015 – 2019	**Mobile Developer**, *Watermelon Tecnologia*, Campinas, São Paulo, Brazil - Development in apps focused on learning, routing, delivery and video conferencing solutions. - Using MVC and MVVC architectures, dependency injection, reactive programming and many platform APIs. - Used tools like Rx, Room, Dagger, Retrofit, Alamofire, Realm, Twillio, Google Maps.

Academic

2017 – 2019	**Machine Learning Researcher**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil In this Bug Triage project we used NLP and ML techiniques to help triage teams on selecting the proper tech teams for resolution of issue tickets. Grant: Motorola Mobility, Instituto Eldorado and Funcamp (UNICAMP) Advisors: Prof. Jacques Wainer (IC-UNICAMP) and Prof. Eduardo Valle (FEEC-UNICAMP)

2016	**Machine Learning Researcher**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil

In this project we used NLP and ML techinques to help triage teams on the assesment of battery related problems on mobile devices.
Grant: Motorola Mobility, Instituto Eldorado and Funcamp (UNICAMP)
Advisors: Prof. Jacques Wainer (IC-UNICAMP), Prof. Eduardo Valle (FEEC-UNICAMP) and Prof. Siome Goldstein (IC-UNICAMP)

2014 – 2016	**Machine Learning Research**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil

In this research we studied the application of Support Vector Machines using altenate formulations and methods of hyper-parameter optimization.
Advisor: Prof. Jacques Wainer (IC-UNICAMP)

Publications

2022	**A Learning-to-Rank Approach for Spare Parts Consumption in the Repair Process**, *Springer, Cham*

Co-author with Daniel de Haro Moraes and Lucas Leonardo Padula
`https://doi.org/10.1007/978-3-031-16474-3_50`

2017	**Empirical comparison of cross-validation and internal metrics for tuning SVM hyperparameters**, *Pattern Recognition Letters*

Co-author with Prof. Jacques Wainer (IC-UNICAMP)
`https://doi.org/10.1016/j.patrec.2017.01.007`

Community Service

2013 – 2014	**Project Management**, *Consultoria, Projetos e Pesquisas em Computação (CONPEC)*, Campinas, São Paulo, Brazil

Voluntary work managing projects

2014/15	**Volunteer**, *Olimpíada Brasileira de Informática (OBI)*, Campinas, São Paulo, Brazil

Voluntary work monitoring the written tests

2013 – 2014	**Member of College Groups**, *Conpec, AAACEC, CACo, Núcleo*, Campinas, São Paulo, Brazil

Education

2013 – 2020	**Computer Engineering**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil
2013 – 2020	**Computer Science**, *Universidade Estadual de Campinas (University of Campinas - UNICAMP)*, Campinas, São Paulo, Brazil

Languages

Portuguese	Fluent	*Native Language*
English	Advanced	*Course at Escola de Idiomas Cultura Inglesa, 2009 – 2011*
Russian	Basic	*Course at Centro de Estudo de Línguas (CEL), UNICAMP, 2013 – 2014*
Spanish	Basic	*Course at Escola Estadual Prof. João Dias da Silveira, 2002 – 2004*

Other Interests

Freedom, science fiction, Free and Open Source Software, alternative rock, Open Science, movies, politics, electronic music, secularism, artificial intelligence, sciences and philosophy.