

Manoel Vilela Machado Neto

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Education

- Aug 2023 | **Masters in Computer Engineering**, *Instituto Tecnológico de Aeronáutica*
Jul 2026 (ITA), *São José dos Campos, São Paulo.*
- Aug 2016 | **BS in Computer Engineering**, *Universidade Federal do Ceará (UFC)*, GPA:
Dec 2023 7.83, *Sobral, Ceará.*
- Aug 2014 | **BS in Computer Engineering**, *Universidade Federal do Pará (UFPA)*, GPA:
Jun 2016 9.0, *Tucuruí, Pará.*

Work Experience

- Jan 2020 – **Machine Learning Engineer**, *Neoway / Uma Empresa B3*, Florianópolis, SC.
Present
 - Build a proprietary Feature Store integrated with multiple corporate components.
 - Build a high-performance system for batch data indexing with multi-sink through Apache Kafka with destinations such as BigQuery/Mongo/ElasticSearch/Postgres.
 - Build a large-scale data pipeline, feature engineering, and models through Airflow.
 - Build a Google Dataproc cluster management system for experimentation environment.
 - Build a apache spark job management system via k8s triggered by API.
- Fev 2018 – **Data Scientist**, *Neoway / Uma Empresa B3*, Florianópolis, SC.
Jan 2020
 - Build a PDF parser to extract public entites from Diário Oficial of Justice from some states. The model will extract like: lawyers names, its ids and processes ids.
 - Build a temporal model to classify the probability of a company being bankrupt in the next 3 months based on temporal features of today and the past.
 - Build a Natural Language Processing model to extract public designations/exoneration from Diário Oficial da União Section from the public site imprensa.nacional.gov.br
 - Build a datascience template using top-notch Software Engineering practices.
- Aug 2015 – **Machine Learning Engineer**, *Nexus Edge*, São Paulo, SP.
Aug 2016
 - Build a model to classify comments of Facebook posts based on Natural Language Processing and Machine Learning techniques using Neural Networks.
 - Explore unsupervised models to topic modelling and topic extraction: LDA, Word2Vec, K-Means and others.
 - Modelling a system for spellchecking based on a natural language graph of Portuguese using Neo4j.

Skills

Programming Languages Python, Common Lisp, C, Go

Tools & Libraries Docker, Emacs, Spark, Pandas, GCP, CatBoost, NLTK, FastAPI, Click

Domain Knowledge Natural Language Processing, Machine Learning, Mathematics, Operating Systems

Projects

Lisp Inference, *Common Lisp*, *Reblocks*.

An Inference Engine based on Propositional Calculus written in Common Lisp
<https://logic.manoel.dev/>

Lisp Chat, *Common Lisp*, *Usockets*, *SBCL*.

An experimental chat system written in Common Lisp
<http://github.com/lisp-chat>

U-root, *Go*, *Linux*.

A fully Go userland! u-root can create a root file system (initramfs) containing a busybox-like set of tools written in Go.
<https://github.com/u-root/u-root>

mal, *Python*, *argparse*, *requests*, *decorating*.

A CLI tool for management of MyAnimeList
<https://github.com/ryukinix/mal>

Decorating, *Python*.

A library to use Python decorators for terminal animation
<https://github.com/ryukinix/decorating>