

Augusto Lustosa

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Area of Expertise

- AI Researcher - Time Series - Forecasting - Data Scientist - Machine Learning engineer - Full-stack engineer

Experience

Senior AI Researcher

Brazil

RECOD.AI AND CEPETRO - IN PARTNERSHIP WITH INTERNATIONAL OIL COMPANY

2025 - now

- Development of innovative techniques of point forecasting and probabilistic forecasting using AI for an international oil company.
- Integrating the AI research with industry standards.

Postdoctoral Researcher

Brazil

UNICAMP

2022 - now

- Developed innovative solutions in the second best university of Brazil at the most import AI laboratory of the Brazil.
- Created innovative solutions for oil/gas exploration industry making use of neural networks such as RNN, LSTM and GRU.
- Worked closely with a cross-functional team, including another researchers, software engineers and stockholders to advance on create innovative solutions.
- Auto managed research timelines, resources as well as the deliverers.
- Authored as well as co-authored papers for conferences and journals, enhancing the visibility and impact of research contributions.

Professor

Brazil

ESTACIO UNIVERSITY

2022 - 2022

- Taught across graduate courses, including Algorithms and Computer Networking, consistently receiving excellent student evaluations.

Full-Stack Engineer

Remote - Netherland company

CLOUD PLUS PLUS

2020 - 2021

- Developed and maintained RESTful APIs endpoints for integration with frontend systems and third-party services using Laravel and Node.js.
- Troubleshooted and resolved backend issues and performance bottlenecks.
- Created and maintained code guided by unit and integration tests.
- Developed and maintained dynamic and responsible user interfaces using Vue.js and Angular.
- Participated in code reviews.
- Worked with a global and distributed team across the world.

Data scientist

Brazil

INTELIT SMART GROUP

2019 - 2020

- Conducted data analysis to uncover trends, outliers, as well as patterns.
- Collected and preprocessed daily millions of data from receipts from a state of Brazil using advanced statistical techniques.
- Created and evaluate several machine learning models to classify products using descriptions found in receipts.
- Architected and created an AI module to integrate to a CRM system.
- Worked in collaboration with a software team to integrate the AI module developed though API calls.
- Created dashboards for stakeholders using PowerBI tool.

Education

Postdoc in Computer Science

Campinas, Brazil

UNICAMP - STATE UNIVERSITY OF CAMPINAS

2022 -

- Development of innovative techniques using machine learning on oil fields.

PhD in Computer Science.

Natal, Brazil

UFRN - FEDERAL UNIVERSITY OF RIO GRANDE DO NORTE

2014 - 2018

- Title: *Diversity and similarity as criteria for selecting classifiers in dynamic selection committees.*

Master in Computer Science.

Mossoro, Brazil

UERN - STATE UNIVERSITY OF RIO GRANDE DO NORTE

2011 - 2013

- Title: *An ontology-based framework for analyzing online social networks applied to prospecting digital activism on Twitter.*

Graduation in IT.

Teresina, Brazil

IFPI - FEDERAL INSTITUTE OF PIAUI

2006 - 2010

- Title: *SocialBlood: Prototype of a social application for blood donors and recipients using the OpenSocial platform.*

Publications

- LUSQUINO, L., LUSTOSA, A., WERNECK, R., ZAMPIERI, M., SALAVATI, S., SCHIOZER, D. J., ROCHA, A., MENDES JR., P. R., CASTRO, M., GONCALVES, M. M., LINARES, O. C.. **A multi-modal approach for mixed-frequency time series forecasting.** NEURAL COMPUTING APPLICATIONS, v. 32, p. 21581605, 2024.
- WERNECK, R., LUSQUINO FILHO, L. A., LUSTOSA, A., LOOMBA, A., GONÇALVES, M. M., ESMIN, A., SALAVATI, S., MORAIS, E., MENDES JUNIOR, P. RIBEIRO, ZAMPIERI, M., AMARAL, M., LINARES, O. C., CASTRO, M., MOURA, R., SCHIOZER, D. J., FERREIRA, A. MELLO, DAVOLIO, A., ROCHA, A. . **Watch the Reservoir! Improving Short-Term Production Forecast Through Transformers.** In: SPE Europe Energy Conference and Exhibition, 2024, Turin. Day 3 Fri, June 28, 2024, 2024.
- GONÇALVES, M. M., WERNECK, R., CASTRO, M., AMARAL, M., MENDES, P. RIBEIRO, FILHO, L. A. LUSQUINO, ESMIN, A., MOURA, R., MORAIS, E., LINARES, O. C., LUSTOSA, A., SALAVATI, S., SCHIOZER, D. J., FERREIRA, A. MELLO, ROCHA, A., DAVOLIO, A. . **Enhancing Short-Term Production Forecast in Oil Fields: Integrating Data-Driven and Model-Based Approaches to Reduce Uncertainty.** In: SPE Europe Energy Conference and Exhibition, 2024, Turin. Day 3 Fri, June 28, 2024, 2024.
- LUSTOSA FILHO, JOSE AUGUSTO S.; CANUTO, ANNE M.P.; SANTIAGO, REGIVAN HUGO NUNES. **Investigating the impact of selection criteria in dynamic ensemble selection methods.** EXPERT SYSTEMS WITH APPLICATIONS, v. 106, p. 141-153, 2018.
- LUSTOSA FILHO, JOSE A. S.; CANUTO, ANNE M. P.; XAVIER, JOAO C. . **An analysis of diversity measures for the dynamic design of ensemble of classifiers.** In: 2015 International Joint Conference on Neural Networks (IJCNN), 2015, Killarney. 2015 International Joint Conference on Neural Networks (IJCNN), 2015. p. 1.
- LUSTOSA FILHO, J. A. S.; MOURA, I. B. G.; PINTO, J. P. F.; COSTA, R. D. . **Um aplicativo social para localização de doadores e receptores de sangue utilizando a plataforma OpenSocial.** Revista Brasileira de Computação Aplicada, v. 4, p. 12-24, 2012.
- LUSTOSA FILHO, JOSE AUGUSTO S.; PINTO, J. P. F.; MOURA, I. B. G. . **Neural Estimate: uma ferramenta para a estimativa de custos de software.** In: Escola Regional de Computação dos Estados do Ceará, Maranhão e Piauí, 2011, Teresina. ERCEMAPI 2011, 2011.
- LUSTOSA FILHO, JOSE AUGUSTO S.; MOURA, I. B. G. . **Test Driven Development como técnica na redução de falhas e na melhoria da qualidade de software.** In: III ENCONTRO UNIFICADO DE COMPUTAÇÃO, 2010, Parnaíba. III ENUCOMP, 2010.