

# Julian M. GANZABAL

✉ jganzabal@gmail.com | ☎ +54-911-3603-0319 | in julian-ganzabal | 🌐 jganzabal | 📍 Argentina

Experienced Machine Learning Engineer with proven track record in industry and high education. Skilled at the ML full cycle (ML-OPS), model design and development. Currently working at Seenka as head ML Engineer and teaching Deep Learning's degree at ITBA.

## WORK EXPERIENCE

PRESENT SEP 2020	<b>Seenka S.A. - Head Machine Learning Engineer</b> <ul style="list-style-type: none"><li>Built and deploy several NLP models: Thesaurus Topic classification, Keyword extraction and NER for news portals and social networks posts, Brand classification based on S2T outputs, W2V for fuzzy search and similarity search using KNN (Open Distro for Elasticsearch)</li><li>Developed ML-OPS full cycle: End-to-end ML-OPS <i>Kubernetes</i> architecture design using <i>Dagster</i> as an orchestrator, <i>Airbyte</i> as the ELT (using <i>dbt</i> as the 'T') platform and <i>MLFLOW</i> as the tracking and model repository tool. Using <i>BigQuery</i> as the ML database to store datasets, predictions and evaluation metrics</li><li>Built the ML team from scratch: Interviewing, selecting, and coordinating de ML team members</li><li>Built and deploy several CV models: Logo detection, OCR and Object detection in TV streams and Youtube Channels.</li><li>Built a real-time <i>commercial spots</i> detection system for Radio and TV channels based on <i>audio hashes</i> and <i>clustering techniques</i></li></ul>
PRESENT SEP 2017	<b>ITBA (Buenos Aires Institute of Technology) - Professor</b> <p>Co-director (Built the full program based on industry needs) and Professor at Deep learning's Lab degree. Contents of the program:</p> <ul style="list-style-type: none"><li>Probability and Statistics with python</li><li>Machine learning Lab (Ensemble Methods, MLP, Recommender Systems, Regression, Decision trees, Unsupervised learning)</li><li>Computer Vision Lab (ConvNets applied to Images, Video and Audio. Classification, Segmentation, Object Detection, VAEs and GANs for image generation)</li><li>Natural Language Processing Lab (RNN and transformers networks applied to NLP)</li><li>Reinforcement Learning Lab (Dynamic Programming, A3C, DQN, PPO)</li></ul>
PRESENT SEP 2017	<b>Independent Consultant - Machine Learning Engineer</b> <ul style="list-style-type: none"><li>DESPEGAR.COM: Analyzed Marketing bidding strategies and now building a model to optimize the measurement of elasticity to improve the revenue of marketing investments. Testing different solutions at the moment: LMS, Kalman and Wiener filters</li><li>CONUAR S.A.: Built a Computer Vision Anomaly detection (Autoencoder) system to detect cracks on atomic energy containers</li><li>ALUAR SAIC: 4 months Online ML training for ALUAR's technology team</li><li>PAN AMERICAN ENERGY: 6 months On-site ML training for PAE's technology team</li><li>SANTANDER RIO: 2 weeks intensive ML training for the bank's technology team.</li></ul>
SEP 2020 SEP 2017	<b>Croma Inc - Parter and ML Engineer</b> <ul style="list-style-type: none"><li>Design and build a GNI (Google News Innovation) project on NLP: Named Entity Recognition, Keyword Extraction, News Recommender System for spanish language</li><li>Build Croma AI platform for news analysis - Named Entity Recognition, Topic Clustering, Keyword Extraction, News Recommender System (TFIDF - w2v) -</li></ul>
SEP 2017 MAR 2013	<b>Globant - Android developer and Machine Learning Engineer at Iamat</b> <ul style="list-style-type: none"><li>Memes Recommender System (CF), OCR and Object detection</li><li>Android development Team leader</li></ul>
SEP 2017 FEB 2000	<b>ITBA (Buenos Aires Institute of Technology) - Professor</b> <p>Associate Professor on the following courses:</p> <ul style="list-style-type: none"><li>Digital Networks</li><li>Digital Telecommunications</li><li>Random Signals</li></ul>
MAR 2013 DIC 2005	<b>XIDEN - IDRIS - Telecommunications Engineer</b> <ul style="list-style-type: none"><li>Design, coordination, and implementation of Networking projects (Metroethernet, FTTH)</li><li>Did Consulting and trained technology teams on Telecommunications (VoIP, Switching, Routing) leading industry companies (TELECOM, TELEFONICA, HUAWEI)</li></ul>

DIC 2005		<b><i>Servicios Computados - Biomedical Engineer</i></b>
JUL 2001		<ul style="list-style-type: none"><li>• Built an ECG holter which was released and commercialized on Argentinian's market</li></ul>

## EDUCATION

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DEC 2002		<b><i>Biomedical Engineer MS -</i></b>
MAR 1999		Favaloro University
DEC 1998		<b><i>Electronic Engineer -</i></b>
MAR 1993		Instituto Tecnológico de Buenos Aires (ITBA)

## SKILLS

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**Programming Languages:** Python, Javascript, Java, C++, Matlab  
**APIs:** Tensorflow (Keras), Pytorch, Spacy, Hugging Face, NLTK, Stable-Baselines3  
**Technologies:** Docker, Kubernetes, GCP, AWS, Dagster, MLFLOW, Airbyte, dbt, Django  
**Databases:** BigQuery, Elasticsearch, PostgreSQL, MongoDB, Redis  
**Languages:** Spanish (Native), English (Fluent)