

# Yesid Leonardo López Sierra

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I am a Machine Learning Engineer with experience building web applications and creating needs-based testing strategies. I enjoy working in companies that allow me to grow, learn, innovate and do research. I enjoy teaching others and learning new things. Additionally, I have experience in MLOps deploying models to production, scaling them, testing them, and using cutting-edge devices for inference when it is needed.

## WORK EXPERIENCE

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### 35Up - Cross-selling

April 2023 - Present

#### *Machine Learning Engineer*

- Propose and implement a next level ML automation tool using Kubeflow
- Build recommendation systems using LLMs and a VectorDB
- Fine-tune GPT3 models from OpenAI to label data
- Research and design LLMs using BERT based architectures
- Deploy ML models to AWS using terraform as IaC tool
- Support interview processes
- Tools: Python, Pytorch, scikit-learn, Kubeflow, Kubernetes, OpenAI, terraform, AWS, Kubernetes

### Getsafe – Insurance Company

April 2022 - March 2023

#### *Machine Learning Engineer*

July 2022 - March 2023

- Implement Shadow and AB deployment to test ML models.
- Improve monitoring for the ML models using MLflow
- Extract and load data from Kafka to Snowflake
- Support the data science team to create more mature processes in their daily job
- Tools: Databricks, MLflow, AWS, cloud formation, snowflake, python.

#### *Backend Engineer*

April 2022 - June 2022

- Implement features taking in mind a quality mindset using Ruby
- Refactor components to deploy them quickly to new markets
- Visualize insurance data to generate alerts when there are inconsistencies
- Lead automation testing strategy to improve the quality in the product
- Tools: Ruby, JavaScript, Periscope, CircleCI, SQL, React

### Perficient – Outsourcing Company

January 2019 - April 2022

#### *Safe Fleet – Machine Learning Engineer*

June 2021 – April 2022

- Create a backend application to preprocessing frames in videos
- Design a distributed architecture to be able to scale ML models in cutting edge devices
- Develop a Geo localization tool to highlight routes in a map. Important to create data for other teams.
- Deploy applications and models in Jetson devices
- Build object tracking models to detect if a car is moving using state-of-the-art models
- Maintain computer vision model to detect curbs in streets
- Tools: Python, TF, OpenCV, Redis, Docker, Jetson Nano, AWS, Javascript, React

#### *Maritz – Data Engineer*

May 2021 – June 2021

- Create synthetic data to train Google Auto ML models (NLP and Vision models).
- Evaluate NLP and Vision models.
- Create a Spring Bash application to generate PDF and images to train models.
- Improve the accuracy of the models based on tests for the models.
- Tools: Java, AutoML, Google Cloud, NLP, Spring Bash

#### *Internal Project: Predictive Test Selection – Data Science applied in Testing*

December 2020 – March 2021

- Create a model to select and prioritize tests that are more likely to fail
- Investigate and create supervised models like decision trees, neuronal networks and SVMs
- Create a plan for the investigation to get results fast
- Tools: Jenkins, Python, Javascript

#### *Splunk – QA Automation Lead*

January 2019 – May 2021

- E2E UI and API tests
- Integrate BDD through different automation levels using Cucumber
- Create automation strategy for several projects and do functional testing and test cases creation using TestRail
- Provide training to offshore members

- Tools: Javascript, Typescript, Node, Cucumber

## EDUCATION

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### Universidad Icesi

*Bachelor of Software Engineering*

*GPA 4.3/5.0*

*Master's degree in data science*

*GPA 4.5/5.0*

## CERTIFICATIONS

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### Coursera

*DeepLearning.AI TensorFlow Developer*

December 2021

*Natural Language Processing in TensorFlow*

December 2021

*Sequences, Time Series and Prediction*

December 2021

*Convolutional Neural Networks in TensorFlow*

October 2021

*Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning*

September 2021

## PUBLICATIONS

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### Artificial Intelligence model to predict the virality of press articles

July 2020 – June 2021

*NLP paper in which we studied the virality of two headlines to predict which one will be more viral*

- Using different deep learning architectures to find the one that could be more efficient
- Implement LSTM and BERT models as one of the proposals
- Use the transformer encoder as part of the best architecture to find the relation between the headline's words
- Tools: Python, TensorFlow, NLP, LSTM, BERT Transformers.

## SKILLS

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### Programming Languages

3 years: Java, Javascript, Python, R

1 years: C#, Groovy

1 Semester: PHP, C++

### Technologies

Pandas, Numpy, *Sklearn*, TenforFlow, Keras, NodeJS, TestCafe, Selenium, Git, AWS, Python, Docker  
OpenCV, TensorBoard, CSS, JQuery, React, Next, SQL, Unix/Bash, Junit, SCA, Google Cloud  
AutoML GCP, Databricks, Comet, Spark, Tableau, PowerBI, Nestjs, Kubernetes, OpenAI, VectorDBs

## MAJOR PROJECTS

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### Machine Learning models to predict and cluster students drop out

January 2018 – December 2018

*Data centric application that predicts if a software engineer freshman will drop out the bachelor's study, also a no supervised learning was developed to cluster the students that dropped out. [Watch the video.](#)*

- Cluster students using the k-means clustering
- Predict retention of students using classification: KNN, neuronal network, SVM, decision trees and logistic regression
- Create an ETL to join data, preprocessing it and save it into a Postgres database
- Build the web application using Django
- Tools: Django, Python, JavaScript, Heroku, KNN, SVM, ANN, Postgres.

## AWARDS

- Cum Laude GPA
- Best grade project for Software Engineering at Icesi
- Scholarship for the best 0,01 results in Colombia and Scholarship for a master's degree