# Fernanda Idarraga-Bastidas

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**Education** 

Specialization in Engineering Management Systems Pontificia Universidad Javeriana, Cali - Colombia	Oct, 2016
B.S. in Mechanical Engineering Universidad del Valle, Cali - Colombia	Nov, 2012
Certifications	
Front-End Web Development. SDCCE. San Diego, CA, USA	Jun, 2023
Python for Data Science. SDCCE. San Diego, CA, USA	Nov, 2022
Programming databases with Python. SDCCE. San Diego, CA, USA	Aug, 2022
Programming with Python. SDCCE. San Diego, CA, USA	Jan, 2022

<sup>\*</sup>SDCCE: San Diego College Continuing Education

## Languages

- English. Proficient. IELTS 6.0
- Spanish. Native

## **Computer Skills**

- Program Languages: Python, HTML, CSS, JavaScript.
- Others: Jupyter Notebook, Github.

### **Projects**

# Ultra-marathon running – Exploratory Data Analysis

2024

Personal Project

(learn more)

- Utilized Pandas library to read, subset and make exploratory data analysis of 7.4 million records and 13 criteria.
- Performed data cleaning to filter race distance, race country; rename columns, discard columns, discard NA data, check duplicated data,
- Visualized data by using matplotlib and seaborn through histograms, bar charts, and violin plot, regression line, and scatter plot.
- Calculated average speed sorted by gender, and distance.

 Found out the best and worst age groups in 50mi race, and the season which athletes are slower.

# Roller Coasters - Exploratory Data Analysis

Personal Project

(<u>learn more</u>)

- Utilized Pandas library to read, subset, and make exploratory data analysis over a database made up of 1087 records and 56 features.
- Performed data cleaning to discard duplicated roller coasters and not key features in this analysis, in this way database resulting was made up of 990 rows and 13 columns.
- Visualized data by using matplotlib and seaborn through histogram, bar chart, Kernel density estimation (KDE), scatter chart, and correlation heat map.
- Found out which were the top 10 fastest roller coasters around the world by using Pandas and displaying through bar chart with seaborn.

# **Heart Failure Prediction – Exploratory Data Analysis**

2024

Personal Project

(learn more)

- Utilized Pandas library to read, subset and make exploratory data analysis of 5000 patients records who suffered of heart failure, 13 clinical features were taken intoaccount.
- Visualized data by using matplotlib and seaborn through histograms, bar charts, and boxplot.

# Consultoria Empresarial Jaramillo y Asociados

Jul, 2023

https://www.cejaramilloyasociados.com/

Created landing page using html, CSS, JavaScript.

### **Work Experience**

## **Maintenance Analyst**

Mar 2020

Tecnoquimicas, Jamundi - Colombia

Jul 2019

- Monitored utilities consumption (gas, electricity, water) through data analysis.
- Calculated the annual projections of electricity consumption for production and HVAC equipment.
- Supervised and guaranteed the maintenance and operation of HVAC equipment.

### **Project Coordinator**

Jul, 2019

Unilever, Palmira – Colombia

Apr, 2019

• Established maintenance strategy under the TPM philosophy pillars – autonomous and planned maintenance – by identifying the critical spare parts of the production equipment and their priority preventive maintenance activities.

#### **Maintenance Planner**

Kimberly Clark, Puerto Tejada – Colombia

- Planned preventive and corrective activities for the scheduled maintenance stops: elaboration and monitoring of work orders, and acquisition of services and spare parts from suppliers using SAP – PM module.
- Monitored and managed the budget of Facilities Department.

Feb, 2019 Feb, 2018

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2024

 Acquired and stocked critical spare parts for production equipment according to the company's policies for purchasing materials using SAP-ARIBA.

• Guaranteed the availability of materials and staff according to the company's policies for purchasing services and materials.

May, 2017 Aug, 2016

- Established and registered in SAP–PM module, the maintenance strategy for production equipment: activities of preventive and corrective maintenance, maintenance frequencies, and critical spare parts.
- Monitored the fulfillment of scheduled activities during project development: change of the dryer for the tissue machine.
- Supervised the development of the projects executed by contractors: construction of building for robotic bag palletizer.

# **Engineering Assistant**

Jun, 2016 Jul, 2015

Kimberly Clark, Puerto Tejada - Colombia

• Planned preventive and corrective activities for the scheduled maintenance stops: elaboration and tracking of work order, and acquisition of services and spare parts from suppliers using SAP – PM module, considering the maintenance budget.

Nov. 2012

# **Maintenance Analyst**

Carvajal Empaques, Ginebra - Colombia

• Set a model to implement TPM pillars, particularly planned and autonomous maintenance, using ORACLE maintenance module.

#### **Conferences Attended**

Women in Data Science. Stanford University. Stanford, CA, USA.

Mar, 2023

# **Community Service**

Volunteer
The Preuss School, San Diego, CA. USA.

Mar, 2022 Oct, 2021

Helped middle school students in Math, Science, and Spanish classes.

#### References

## William Rodriguez

Engineering Manager
Tecnoquimicas
Jamundi – Colombia
wrodriguez@tqgrupo.com

## Carlos Herrera Ph.D.

Professor

Mechanical Engineering School
Universidad del Valle
Cali – Colombia
carlos.herrera@correounivalle.edu.co

## **Edwin Alvear**

Program Specialist, Lean Energy Kimberly Clark Puerto Tejada – Colombia edwin.a.alvear@kcc.com

## Albio Gutierrez Ph.D.

Professor

Mechanical Engineering School Universidad del Valle Cali – Colombia albio.gutierrez@correounivalle.edu.co