

ANED ESQUERRA ARGUELLES

DATA SCIENTIST & ANALYST

@ anedesquerra@gmail.com @ aned.esquerrargls@uanl.edu.mx +52-8118935126
Av. Universidad S/N, Ciudad Universitaria, 66451 San Nicolas de los Garza N. L., Mexico
in anedesquerra anedesquerra binpacking-uanl



WORK EXPERIENCE

Senior data scientist & Data engineer

THREAD Solutions

July 2018 – August 2020 Monterrey, Nuevo Leon

- Leading data science projects using ranking methodologies with fuzzy data for data analysis.
- Design, development, maintenance, and administration of DBMS based on MySQL, and SQL Server systems.
- Leveling up companies' data science department members in data analysis techniques, data science, and machine learning.

Data Science Researcher & Advanced Calculus Professor

University Corporation of Meta - UNIMETA

February 2014 – July 2018 Villavicencio, Meta

- Lead researcher of projects involving in data science, machine learning, deep learning, and other statistical methods and techniques.

Senior .NET Developer & IT Consultant Specialist

Openclick International Inc.

January 2010 – July 2016 Villavicencio, Meta

- Project leader on application design and development projects.
- Lead developer of web applications over .NET frameworks.
- IT *ad-hoc* consulting.

EDUCATION

PhD. de Ingeniería con Orientación en Sistemas

UANL - Autonomous University of Nuevo Leon

August 2020 – San Nicolas de los Garza, N.L., Mexico

MSc. in Engineering of Systems

UANL - Autonomous University of Nuevo Leon

August 2018 – July 2020 San Nicolas de los Garza, N.L., Mexico

MSc. in Technological Management

UDES - University of Santander

May 2018 – October 2020 Bucaramanga, Santander, Colombia

Especialization in Educative Computing Management

UDES - University of Santander

June 2014 – June 2015 Bucaramanga, Santander, Colombia

BSc. in Computer Science

UCLV - Central University of Las Villas

September 1993 – June 1998 Santa Clara, Villa Clara, Cuba.

PERSONAL STATEMENT

"Without data, you're just another person with an opinion."

SOFT SKILL PROFILE

Leadership & Team-working

Oral & written communications skills

Creativity & critical thinking

Emotional intelligence

Adaptability

Continuous learning & self-study

HARD SKILLS

Python programming

R programming

Data scientist

Data engineer

Data analyst

Machine learning

Big data & data mining

Deep Learning

Web design

ASP.NET C# MVC framework

CSS3 & HTML 5.0

mySQL Server developer

SQL Server developer

MS Excel

Google spreadsheets

Power BI

Tableau

LANGUAGES

English

Spanish

French

PROJECTS

Macro-project: Management and control plan for Lepidoptera in the Colombian llanero ecosystem

UNIMETA - University Corporation of Meta

📅 November 2019 - December 2020 📍 Meta, Colombia

- **Data scientist & machine learning engineer:**
 - Design of CNNs and RNNs to classify species of endangered Colombian butterflies.
 - Analyzing chronological data about Colombian butterflies' life-cycle to infer variability patterns using data science techniques.

Mathematical and statistical models for forecasting student dropout based on data from ICFES exams and UNIMETA's internal admission assessments

UNIMETA - University Corporation of Meta

📅 November 2019 - December 2020 📍 Meta, Colombia

- **Lead researcher:**
 - Coordination of IT department for information extraction.
 - Supervision of survey teams' for complementary information gathering related to the research.
 - The design and adjustment of the research methodology and experimental analysis during the entire investigation process
- **Data scientist:**
 - Characterizing the process of drop-out in different engineering careers.
 - Exploratory and inferential analysis of the previously gathered data.
 - Development of mathematical-statistical models for desertion rate prediction using machine learning, deep learning, and mixed approach techniques.
 - Testing and adjustment of the accuracy and stability of the developed models.
 - Periodic readjustment of the model according to the decay ratio of parameters..

CONACYT, "Large Scale Optimization Problems in Logistics and Supply Networks", support 167019

UANL - Autonomous University of Nuevo Leon

📅 July 2018 - December 2019 📍 Nuevo Leon, Mexico

- **Research assistant:** Design and analysis of model experimentation results, and data visualization of model performance parameters.

UNIMETA Web Portal

UNIMETA - University Corporation of Meta

📅 July 2015 - July 2017 📍 Villavicencio, Meta

- **Project leader:**
 - Lead project designer and developer, selection of the members of the work teams, and the coordination of graphic design teams, front end design, and back end development.
- **Senior .NET Developer:** Design and development of portal modules and subsystems using ASP.NET, C# & MVC 5.
- **Senior Data Architect:** Design and development of schema and DBMS using MySQL.

ACHIEVEMENTS

Junior researcher

COLCIENCIAS

📅 2018 Jan. - Ongoing 📍 Colombia

Peer evaluator

MINCIENCIAS

📅 2018 Jan. - Ongoing 📍 Colombia

ARTICLES

- *Una propuesta de utilización de las nuevas Tecnologías en los laboratorios de Mecánica de la UNIMETA.* Published on August 30, 2015, Journal Guarracuco - ISSN:1657-4605, ISSN:1657-4605e.

- Lagrangian Approach to Modeling Placement Conditions in Optimized Packing Problems, <https://link.springer.com/article/10.1007%2Fs11036-020-01556-w> Journal Mobile Network and Applications ISSN-e:1572-8153, ISSN: 1383-469X.

REFERENCES

Ph.D. Igor Litvinchev

@ UANL

✉ igorlitvinchev@gmail.com

+52-811 290 0282

Ph.D. Fernando López

@ UANL

✉ flopez65@gmail.com

+52-811 268 2780

Ph.D. Fidel Rodriguez Puertas

@ UNIMETA - University Corporation

✉ fidelrp@gmail.com

+57-314 398 7768

Ph.D. Daniel Mosquera Artamonov

@ Everis

✉ xoce15@ingenieros.com

+52-1-812 892 1722

Ph.D. Yasser Farrés Delgado

@ Santo Tomas University

✉ yasserfarres@usantotomas.edu.co

+57-318 357 6759

INTERNATIONAL CONGRESSES

INFORMS International Conference 2019

Attendant

2-9, June 2019

Cancun, Mexico

ESICUP Meeting

Attendant

ITAM CDMX

8-12, April 2019

VI CISARS2018

Organizer & Press committee member

24-25, August 2017

Meta, Colombia

- <http://cisars2018.unimeta.edu.co/pages/contents.aspx?token=FC3FD26E08BA22C4A126010EBB9830D2>

2nd International Meeting of Science, Technology and Innovation

Organizer

27-28, October 2017

Meta, Colombia

CICI 2016 "Uniendo fronteras desde la Orinoquia para el mundo"

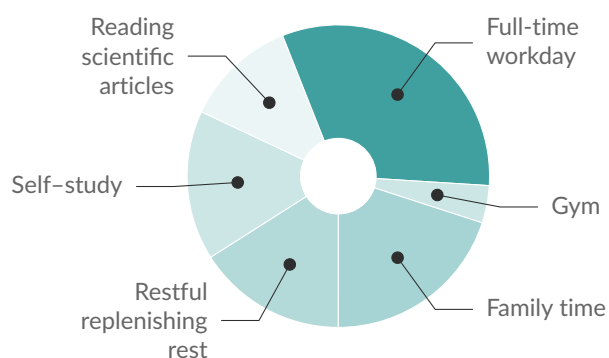
Exhibitor with poster

19-21n October 2016

Villavicencio, Meta

- http://cici.unillanos.edu.co/media2016/memorias/CICI_2016_paper_49.pdf

A DAY IN MY LIFE



COURSES & TRAININGS

- Online courses in Coursera:

<https://github.com/anedesquerra/Certificates/tree/master/Coursera>

- Online courses in Datacamp:

<https://github.com/anedesquerra/Certificates/tree/master/Datacamp>

- Online courses in Linkeding Learning:

<https://github.com/anedesquerra/Certificates/tree/master/Linkedin%20Learning>

- Online courses in Udemy:

<https://github.com/anedesquerra/Certificates/tree/master/Udemy>

- Other online courses:

<https://github.com/anedesquerra/Certificates/tree/master/Others>