

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



WORK EXPERIENCE

Data scientist & Data engineer – freelanced

THREAD Solutions

📅 July 2018 – Ongoing 📍 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 Full

Professor

University Corporation of Meta - UNIMETA

📅 February 2014 – July 2018 📍 Villavicencio, Meta

- Lecturing Advanced Mathematics topics for engineering careers students.
- 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

MSc. de Engineering of Systems

UANL - Autonomous University of Nuevo Leon

📅 August 2018 – 📍 San Nicolas de los Garza, N.L, Mexico

MSc. in Technological Management

UDES - University of Santander

📅 May 2018 – 📍 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 SKILL PROFILE

Python programming

R programming

Data scientist

Data engineer

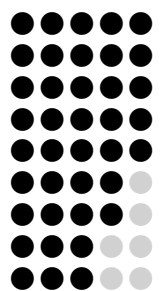
Data analyst

Machine learning

Web design

Deep Learning

Big data & data mining

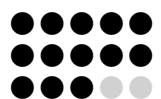


LANGUAGES

English

Spanish

French



PROYECTOS

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. Accepted, 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, México

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 Orinoquía para el mundo"

Exhibitor with poster

📅 19-21n October 2016

📍 Villavicencio, Meta

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

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>
