

ANED ESQUERRA ARGUELLES

DATA SCIENTIST & ANALYST

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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

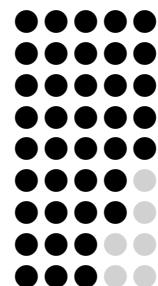
Data analyst

Machine learning

Web design

Deep Learning

Big data & data mining

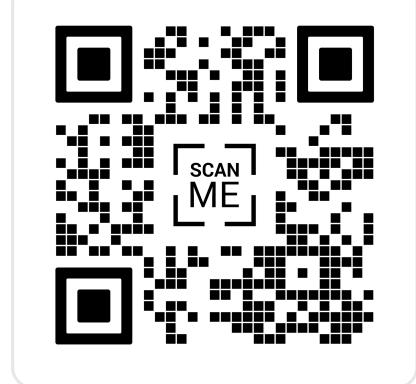


LANGUAGES

English

Spanish

French



PROYECTOS

Macro-project: Management and control plan for Lepidoptera in the Colombian Ilanero 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 ad 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 Guaracuco - ISSN:1657-4605, ISSNe: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

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Ph.D. Yasser Farrés Delgado

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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 LinkedIn 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>