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.
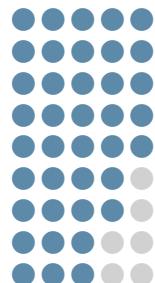
PERSONAL STATEMENT

"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
Time administration & management
Adaptability
Continuous learning & self-study

HARD SKILL PROFILE

Skill	Level
Python programming	●●●●●
R programming	●●●●●
Data scientist	●●●●●
Data engineer	●●●●●
Data analyst	●●●●●
Machine learning	●●●●○
Web design	●●●●○
Deep Learning	●●●○○
Big data & data mining	●●●○○

LANGUAGES

Language	Level
English	●●●●●
Spanish	●●●●●
French	●●●○○

PROYECTOS

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

UNIMETA - University Corporation of Meta

📅 Project duration   📍 November 2019 - December 2020

- **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

📅 Project duration   📍 November 2019 - December 2020

- **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

📅 Project duration   📍 July 2018 - December 2019

- **Research assistant**:

UNIMETA Web Portal

UNIMETA - University Corporation of Meta

📅 Project duration   📍 July 2015 - July 2017

- **Project leader**:
  - Lead project designer and developer.
  - Selection of the members of the work teams.
  - Coordination of graphic design teams, front end design, and back end development.
- **Senior .NET Developer**:
- **Senior Data Architect**:

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, 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.

JOB 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

REFERENCES

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

A DAY IN MY LIFE

Reading scientific articles

Full-time workday

Self–study

Gym

Restful replenishing rest

Family time