ANDRÉS URIZA

Data Scientist | Educator

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in https://www.linkedin.com/in/andres920310/   https://github.com/pa-uriza

🔧 WORK EXPERIENCE

Data Engineer
Factored

📅 Sep 2021 - Present 📍 Bogotá, Colombia

- Implemented ETL processes to extract data stored in data lakes and relational databases, to feed a dimensional model stored in a data warehouse using AWS and PySpark. Served BI visualization tools over a data warehouse to address business questions.
- Created serverless cloud services and infrastructure as code (IaC) tools.
- Developed an end-to-end automated report generation app using Docker and AWS.

Assitant professor
Universidad Sergio Arboleda

📅 Aug 2019 - Present 📍 Bogotá, Colombia

- Coordinated curriculum and teaching materials for decision-making and operational research class subjects.
- Led a student research group and taught courses in applied analytics and machine learning.

Consulting analyst
TransMilenio S.A.

📅 Apr 2019 - Mar 2020 📍 Bogotá, Colombia

- Proposed and implemented optimization models and machine learning strategies to support decision-making for the technical department of buses.

Instructor – Discrete-event simulation
Universidad de los Andes

📅 Jan 2018 - Jul 2019 📍 Bogotá, Colombia

- Trained students to model and evaluate stochastic systems and derive business recommendations through simulated environments.

Technology & Analytics consultant
World Bank Group

📅 Mar 2018 - Jul 2018 📍 Bogotá, Colombia

- Researched and performed geo-spatial analysis, visualizations and descriptive statistics on the usage and promotion of non-motorized means of transportation.
- Developed a generalized additive model to explain sociodemographic and built-environment differences in bicycle commuting in the City of Bogotá.

Functional analyst
Zettai Consulting - Ajover

📅 Mar 2017 - Jan 2018 📍 Bogotá, Colombia

- Implemented tools and strategies to get data-drive valuable business insights by identifying, analyzing, and interpreting trends and patterns using statistical techniques

Graduate teaching assistant / Lecturer
Universidad de los Andes

📅 Jan 2014 - Dec 2016 📍 Bogotá, Colombia

- Teaching assistant - *Discrete-event Simulation* from Jan to Dec 2016 - *Manufacturing System*s from Jan 2014 to Jul 2015
- Lecturer - *Mechanical system dynamics* from Jul to Dec 2015

👤 ABOUT ME

data engineer with 6+ years of experience in data science. Helped companies make their data usable for analyzing, modeling, and generating valuable business insights. Experienced in developing ETL processes and creating ML/DL solutions. Knowledge-eager engineer with research experience in computer vision, NLP, and ML with graphs. Highly motivated to tackle challenging architectural and scalability problems for data-intensive applications and effective at working autonomously and in multi-disciplinary teams.

⚙️ TECHNICAL SKILLS

Skill	Level
Python	●●●●●
PyTorch	●●●●●
R	●●●●○
MATLAB	●●●○○
SQL	●●●●○
Deep Learning	●●●●○
Machine Learning	●●●●○
Analytics	●●●●○

🏆 ACHIEVEMENTS

Knowledge Evolution
Going next level everyday by continuous learning of technical and scientific knowledge

DS4A - Colombia Cohort 5l
Selected as one of the 620 over 9000 applicants for advanced education in data science, sponsored by the Colombian government

Graduated Teaching Assistance
Granted as an excellence recognition

Quiero Estudiar Scolarship
Half-tuition scholarship for undergraduate studies

🎓EDUCATION

M.Sc. in Industrial Engineering (CGPA: 4.37 / 5.0)
Universidad de los Andes
📅 Jan 2016 - Dec 2016 📍 Bogotá, Colombia

- **Thesis:** A methodology for option pricing in electricity markets. Case study Colombia
- **Research areas:** Analytics, energy economics, simulation, energy derivatives, statistics

M.Sc. in Mechanical Engineering (CGPA: 4.39 / 5.0)
Universidad de los Andes
📅 Jan 2014 - Jun 2015 📍 Bogotá, Colombia

- **Thesis:** Design and implementation of passive weight compensation for a robotic manipulator
- **Research areas:** Robotics, weight compensation, nonlinear optimization, manipulator kinematics

B.Sc. in Industrial Engineering (CGPA: 4.19 / 5.0)
Universidad de los Andes
📅 Jan 2010 - Dec 2014 📍 Bogotá, Colombia

- **Graduating project:** Formulation and evaluation of a integer optimization model for route design in BRT systems under uncertainty in demand
- **Research areas:** Stochastic optimization, route design problems

B.Sc. in Mechanical Engineering (CGPA: 4.16 / 5.0)
Universidad de los Andes
📅 Jan 2010 - Dec 2013 📍 Bogotá, Colombia

- **Graduating project:** Design and implementation of an exoskeleton for assistance in extension and flexion movements of human elbow
- **Research areas:** Orthesis design, rehabilitation robotics

✳CERTIFICATES

- **Data Engineering Nanodegree**. Udacity
- **Deep Learning Specialization**. DeepLearning.AI, Coursera
- **DeepLearning.AI TensorFlow Developer Specialization**. DeepLearning.AI, Coursera
- **Natural Lenguage Processing Specialization**. DeepLearning.AI, Coursera
- **AI for Medicine Specialization**. DeepLearning.AI, Coursera
- **Generative Adversarial Networks (GANs) Specialization**. DeepLearning.AI, Coursera
- **Self-Driving Cars Specialization**. University of Toronto, Coursera
- **Advanced Business Analytics Specialization**. University of Colorado Boulder, Coursera *(On course)*

📑JOURNAL PUBLICATIONS

- Is the built-environment at origin, on route, and at destination associated with bicycle commuting? A gender-informed approach.
Higuera-Mendieta, D., **Uriza, P. A.**, Cabrales, S. A., Medaglia, A. L., Guzman, L. A., Sarmiento, O. L. (2021). In *Journal of Transport Geography*, 94, 103120.
https://doi.org/10.1016/j.jtrangeo.2021.103120
- Design of Passive Weight Compensation for a Robotic Manipulator
Uriza, P. A., Rodriguez C.F. (2015). In *Applied Mechanics and Materials*, (Vol. 798, pp. 30-35). Trans Tech Publications Ltd
https://doi.org/10.4028/www.scientific.net/AMM.798.30

⚡STRENGTHS

Quantitative Analysis Goal oriented

Decision Making Leadership

Multidisciplinary Teamwork

Flexibility and Adaptability

Communication Skills

🌐LANGUAGES

Spanish ●●●●●
English ●●●●●
Portuguese ●●○○○
German ●○○○○

🎮HOBBIES

Reading papers
Being updated on trending research topics

Amateur musician
Playing guitar and singing

Cooking
Experimenting with new recipes

Travelling
Always fond of traveling to new places

Community service
Volunteer teaching kids in vulnerable contexts

✈REFERENCES

Prof. Carlos Francisco Rodríguez
@ crodrigu@uniandes.edu.co
💼 Associate professor at the Mechanical Engineering Department, Universidad de los Andes

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Daniel Ardila Palomino Palomino
@ daniel.ardilapalomino@sony.com
💼 Engineer at Perception Systems Group, Sony Europe B.V. Zweigniederlassung Deutschland