

Juan Antonio Montenegro

Data Scientist



Data Scientist with 6+ years of experience in data analysis, Machine and Deep learning and computer vision. I enjoy using data to improve your business.

Contact information

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Location: Guatemala city, Guatemala

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Work Experience

Data Scientist *Distelsa S.A. - McKinsey & Company | Guatemala | July 2024 - Current*

Machine Learning / Deep Learning

- Develop, train, fine-tune and deploy recommendation machine learning models in order to increase sales by targeting different clients groups through RFM analysis and ML models.
- Use A/B testing to measure the impact of personalization for different campaigns.
- Create and automate campaigns' reports in order to track the success of our A/B tests.
- Generate reproducible, maintainable and modular data science code
- Communicate results to shareholders.

Data Scientist *Banco Agromercantil S.A. | Guatemala | January 2023 - July 2024*

Machine Learning / Deep Learning

- Developed, trained, fine-tuned and deployed machine learning models for anomaly detection, transaction monitoring, and customer risk assessment of potential Anti Money Laundry (AML) activities.
- Constantly improve algorithms' results.
- Develop AI solutions to tackle complex compliance requests from the regulatory authorities.
- Automate compliance reporting processes, ensuring timely submissions to regulatory authorities.

Data tasks

- Analyze, clean, pre-process and develop models with provided data.
- Prepare and present EDA reports to identify patterns, trends, and red flags related to money laundering and fraud. Additionally, report data mistakes on databases.

Others

- Redact, publish and update documentation of deployed algorithms.
- Research the best compliance and AML techniques, state-of-the-art algorithms and their implementation.
- Collaborate with IT and software development teams to integrate machine learning models into the bank's AML software.

R&D Engineer *CHOWIS Co. LTD. | South Korea | November 2021 - June 2022*

Deep Learning

- Developed, trained, fine-tuned and deployed computer vision deep learning models.
- Optimize data pipeline for training deep learning algorithms.
- Improve algorithms' results.

Data tasks

- Retrieved, cleaned and prepared data for training models.
- Strengthened the data management, model training and customer experience processes.
- Built statistical dashboards for quick access to businesses' data.

Management / Others

- Managed up to three teams of annotators for labeling data purposes.
- Coordinated with commercial and academic partners for data and algorithm exchange.
- Redacted, updated and corrected scientific documentation of deployed algorithms.

Other roles

Data Analyst VESTEX-OEC | Guatemala | January 2017 - July 2019

Education

- **Rafael Landivar University**

Bachelors degree in Economy | January 2014 - July 2018

- **Kookmin University**

Data Science Master's degree | August 2020 - July 2022

Publications: *Semi-supervised generative adversarial networks for anomaly detection. Innovative Economic Symposium · Jan 5, 2022*

Skills

- Python, R, Plotly-Dash for data analysis, visualizations and Artificial Intelligence.
- Tensorflow, Pytorch, Keras and Scikit-learn for Machine Learning, Deep Learning and their applications.
- MySQL, PostgreSQL, Impala, DBeaver, SQLAlchemy, ORACLE SQL Developer for databases.
- Git/Github for managing, collaborating and version control on repositories.
- CV2, Imutils, ArUco, OCR, MediaPipe, Streamlit, etc., for computer vision applications.
- Flask and PythonAnywhere for developing python web apps.
- Linux for open source applications.
- Strong problem-solving and critical-thinking skills with a strong emphasis on efficiency and effectiveness.
- Excellent communication and presentation skills.
- Collaborate effectively and integrate diverse perspectives from multidisciplinary teams.

Certifications

- Data Science on R: Professional Certificate Program | HarvardX | January 2019 - August 2019
- Deep Learning with Python y PyTorch | IBM | August 2021 - November 2021
- SQL for data science | IBM | February 2021 - April 2021
- Computer Vision University | PyImage University | May 2022 - Present
- Probability and Statistics for Data Science in Python | UCSanDiegoX | December 2020 - January 2021

Languages

English

Professional (TOEFL: C1-108 points)

Korean

Intermediate (TOPIK II: Level 3 -140 points)

Spanish

Native

References

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Economist

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