

# Daniel Atoche Garay

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## Education

<b>Instituto Tecnológico de Costa Rica:</b> <i>Computer Science</i>	2021 - 2024
<b>Google:</b> <i>Advanced Data Analytics</i>	2023-2024
<b>Microsoft Power BI Data Analyst Professional</b>	2024

## Portfolio

- Developed Machine Learning algorithms using Python, SQL, scikit-learn, Matplotlib, numpy, pandas, Colab, TensorFlow, Hadoop, Apache Spark, Kafka, Google Cloud, Snowflake, and CNNs.
- Utilized image processing techniques and time series forecasting algorithms in the development of Machine Learning models.
- Conducted comprehensive data analysis: preprocessed data, performed exploratory data analysis.
- Built and validated models (including supervised and unsupervised regression models like KMeans, linear and logistic regression, random forests, and XGBoost), optimized hyperparameters, and interpreted and communicated results.
- Developed Python APIs using FastAPI and web applications using Django, managed databases in PostgreSQL, and deployed applications on Heroku, Docker, and DigitalOcean.

## Experience

### Private Consultant

*Computer Vision, Natural Language Processing, Data and Statistical Analyst* 2022-2024

- Collaborated with RedLabs on implementing deep learning models for real-time object detection using TensorFlow and PyTorch.
- Worked with VisionWorks to deploy AI-driven quality control systems based on convolutional neural networks (CNNs) and image processing techniques.
- Enhanced Intel's anomaly detection capabilities using machine learning frameworks like Scikit-Learn and XGBoost, integrating them into existing data pipelines.
- Conducted predictive maintenance analysis using time series forecasting algorithms and machine learning in Python for several small and medium-sized companies across the manufacturing and healthcare industries.
- Optimized algorithms for multiple analytics solutions providers, leveraging Apache Spark and Snowflake for big data processing in the technology and design sectors.

### TecService - Logixsoft

Heredia, Costa Rica

*Python Developer*

2023

- Led a team in restructuring the company's database, with which we developed an interactive web application in Django, a .NET API, and a SQLServer database.

### Elev8 Education

Cartago, Costa Rica

*Python, Java, and JavaScript Instructor*

2023

- Prepared students for international Python certifications through comprehensive training and personalized guidance.

### Instituto Tecnológico De Costa Rica

Cartago, Costa Rica

*Discrete Mathematics Professor*

2022

- Instructed students in logic and set theory within discrete mathematics, cultivating their analytical reasoning abilities.

## Skills & interests

Python, Pycharm, Django, FastApi, Postgres, SQL, Postman, Pytest, CI/CD, Ubuntu, Docker, Heroku, DigitalOcean, Microservices, AI, LLM, Machine Learning, Deep Learning, Jupyter, Statistical Analysis, Exploratory Data Analysis, scikit-learn.