ENRIQUE POVEDA LORENTE

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Professional Profile

I am passionate about the development of applications and geospatial data analysis. I have pursued postgraduate studies in this field. In addition, I have completed several courses, including QGIS Developer at TYC GIS and HTML/CSS/JS on Udemy. This past year, I had the opportunity to develop Deep Learning models focused on the geospatial field at the startup Orygen Earth S.L., aimed at calculating the usable area of clients' plots using high-resolution satellite images.

Experience:

Geospatial Data Scietist | Orygen Eath S.L (05.23-08.24)

· Designed products based on geospatial data using Computer Vision and NLP techniques, such as Retrieval-Augmented Generation (RAG).
· Developed geospatial data models through semantic segmentation techniques.
· Proficient in the use of geospatial databases (PostGIS, SQL)
· Manual image labeling using segmentation tools such as:
  - o CVAT (Computer Vision Annotation Tool)
  - o Custom scripts based on binarization methods.
· Algorithm Development:
  - o Unsupervised algorithms for Lidar technology.
  - o Supervised machine learning algorithms (KNN, SVC, Deep-forest) applied to multispectral images.
· Additional Responsibilities
  - o Automatic extraction of high-resolution satellite images.
  - o Developed an API for Computer Vision models using FastAPI.
  - o Georeferencing and formatting of predictions using libraries like numpy, gdal, shapely, or rasterio.
  - oTested various Deep Learning architectures (YOLO, U-NET) using frameworks such as Keras and Ultralytics.
  - o Utilized Google Earth Engine for geospatial data analysis.
  - o Performed web scraping using Beautiful Soup to collect data.

Rural Development Technician | Rural Development Program | City Council of San Esteban del Valle (06.22 - 08.22)

- Developed a fire protection project aimed at safeguarding properties in the wildland-urban interface
- Submitted grant applications at the regional level to the Junta of Castilla y León
- Technical Report Preparation
- Project Management for the City Council
- Firefighting Participation

Deputy Quality Management | Intern at UPM | Beca en la UPM (04.22-06.22)

- Database Management and Development

Education:

Polytechnic University of Madrid (09.24-06.25)
  Geomatics Applied to Engineering and Architecture

MIOTI Tech & Business School (10.23-06.24)
  Data Science & Analytics

Polytechnic University of Madrid (9.2019-12.23)
  Bachelor's Degree in Forestry Engineering