

# AKETZA ROMANIEGA BILBAO

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## INTRODUCTION

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Junior Data Scientist and Data Analyst with expertise in bioinformatics, biostatistics, and chemistry. Proficient in Python, R, and data visualization. Experienced in machine learning, experimental design, and collaborative research. Fluent in Spanish, Basque, and English.

## WORK EXPERIENCE

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### Helmholtz Institute for Pharmaceutical Research Saarland – PhD Student

*Oct 2020 – Dec 2022*

- Analyzed complex datasets to identify patterns and insights.
- Designed and conducted experiments, ensuring data accuracy and integrity.
- Collaborated on interdisciplinary project from conception to completion, maintaining timelines and deliverables

## PROJECTS

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### Classification of Autism Spectrum Disorder in MRI using CNNs

- Developed a CNN model to classify MRI scans of autism spectrum disorder and neurotypical brains.
- Achieved 68% classification accuracy through data preprocessing, model training, evaluation and optimization.
- Utilized Python, TensorFlow, and data visualization tools for model development and interpretation.

## EDUCATION

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### Open University of Catalunya – MSc in Bioinformatics and Biostatistics

*Feb 2023 – Feb 2024*

### University of the Basque Country – MSc in Synthetic and Industrial Chemistry

*Sep 2019 – Sep 2020*

### University of the Basque Country – BSc in Chemistry

*Sep 2015 – Jun 2019*

## SKILLS

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- **Programming:** R language, Python (NumPy, Pandas, SciPy)
- **Data Visualization:** Matplotlib, Plotly, ggplot2
- **Machine Learning:** TensorFlow, Scikit-learn
- **Reporting Tools:** Jupyter Notebook, RMarkdown

## LANGUAGES

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- **Spanish, Basque, English:** Proficient
- **German, Korean:** Beginner