



# JUNJIE JI

 [unthrive](#)  [LinkedIn](#)  [junjie.ji@outlook.com](mailto:junjie.ji@outlook.com)

 Barcelona, Spain  +34 640644132

## SKILLS

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| <b>Programming Languages:</b>    | Python, C, C++, Java, SQL, R, Javascript, HTML, CSS, etc.  |
| <b>Machine Learning Toolkit:</b> | numpy, pandas, scipy, altair, scikit-learn, statsmodels, PIL, OpenCV   |
| <b>Deep Learning Toolkit:</b>    | Keras, Tensorflow, Pytorch, RNN, CNN, LSTM, GAN, LLM, NLP, RAG   |
| <b>Miscellaneous:</b>            | GitHub, Git, Office, MongoDB, MySQL, PostgreSQL, Tableau, PowerBI, Dash, Plotly, Jira, Azure, AWS, Streamlit |
| <b>Languages:</b>                | Spanish (native), Chinese (native), English (native), Catalan (native)                                       |

## RELEVANT EXPERIENCE

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| <b>Hospital del Mar</b><br><i>Senior Data Scientist</i><br>- Lead Data Scientist for the Federated Learning project.<br>- Working on fine tuning LLMs for private medical use.<br>- Working on RAG for data retrieval from different clinical sources.<br>- Tutoring Master students on their final thesis.<br>- Working on medical imaging explainability. | <i>Barcelona, Spain</i><br><i>Jan 2024 - Current</i>   |
| <b>Hospital del Mar Research Institute</b><br><i>Ph.D Student</i><br>- Ph.D in Data Science applied to single-cell sequencing data.   | <i>Barcelona, Spain</i><br><i>May 2024 - Current</i>   |
| <b>NTT DATA</b><br><i>Data Analyst</i>  | <i>Barcelona, Spain</i><br><i>Feb 2022 - Jan 2023</i>  |
| <b>UVE - Route to market data intelligence</b><br><i>Solutions Analyst - Internship</i>   | <i>Barcelona, Spain</i><br><i>June 2021 - Nov 2021</i> |

## EDUCATION

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|---|---|
| <b>Universitat Pompeu Fabra</b><br><i>Ph.D in Biomedicine</i>   | <i>Barcelona, Spain</i><br><i>Sept 2024 - July 2028</i> |
| <b>University of Barcelona</b><br><i>MSc. in Data Science</i><br>- Honors in Computer Vision, Big Data, Deep Learning and Agile Data Science.   | <i>Barcelona, Spain</i><br><i>Sept 2022 - July 2023</i> |
| <b>University of Barcelona</b><br><i>BSc. in Mathematics</i><br>- Honors in Arithmetics, Calculus I, Calculus II and Graph Theory. Coursed Databases, Artificial Intelligence, Python and Java in CS minor. | <i>Barcelona, Spain</i><br><i>Sept 2017 - July 2022</i> |
| <b>Changzhou University</b><br><i>Exchange Program</i>  | <i>Changzhou, China</i><br><i>Summer 2019</i>           |
| <b>Aula Escola Europea</b><br><i>International Baccalaureate Diploma</i>  | <i>Barcelona, Spain</i><br><i>Sept 2013 - July 2014</i> |

## AWARDS

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- PFIS Scholarship for research (issued by ISCIII, 2025).
- CiMs Cellex Scholarship (issued by Catedra UPC, 2013).
- Scored 145/150 in "Cangur 2012".
- 2nd Place in "Fem Matematiques 2010" (Catalonian Mathematics Olympiad).
- 4th Place in "Fem Matematiques 2011" (Catalonian Mathematics Olympiad).