



DAMIEN ISAI

MSc Biomedical Engineering
graduated

Contact Me

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About Me

Graduated in biomedical engineering and having skills in data analysis and science, I am seeking a Data Scientist Junior position. Motivated, dynamic, autonomous, willing to take up challenges, I will be a driving force to bring added value to your data.

Skills

- Hard skills:
Programming – Data Collection – Data Analysis – Data Visualization – Supervised/Unsupervised Machine Learning – Deep Learning – Data Engineering - Statistics
- Tools skills:
Python – SQL – Numpy – Pandas – Matplotlib|Seaborn – Scikit learn – Tensorflow|Keras – Docker – AWS – Dask – Git|Github – MS Office

Languages

- French (Native language)
- English (Professional – TOEIC 920)

Projects

Portfolio

- **Airbnb price prediction**
Predict the price of parisian airbnbs | MSE: 0.14 | Tuned XGBoost Regressor
- **Healthcare cost prediction**
Predict the top 10 percent of patients with the highest healthcare costs and model explainability | Accuracy: 0.72 | Tuned XGBoost Classifier

Articles (see on LinkedIn)

- Price prediction using AutoML with AWS SageMaker Autopilot
- How to explain your ML model with SHAP (in progress)

Experiences

Research Engineer Intern

Centre d'Energie Atomique - Neurospin | february - June 2020

- Conduct bibliographical research and build a research methodology
- Develop python scripts for neuroimaging brain regions segmentation.
- Data cleaning and preprocessing
- Predict brain regions developmental trajectories using multiple linear and nonlinear regression analysis
- Use of Cloud computing (AWS EC2, S3, SageMaker)
- Build reports and explain models results using data visualization

Data Analyst Intern

INSERM | december2018 - june 2019 (400 hours)

- Collect behavioral data using SQL
- Data cleaning and preprocessing
- Statistical analysis to explain episodic memory improvement in children development
- Build reports and explain models results using data visualization

Clinical Neuropsychologist Intern

AP-HP | November 2018 - May 2019 (250 hours)

- Evaluate preserved and deficient cognitive functions following neurological pathologies (*Neurodegeneresis*).

Education

BioMedical Engineering Master Degree

Université de Paris – Arts et Métiers – Université PSL | 2018 – 2020

Track: Bioengineering and Innovation in Neuroscience: Courses mesh engineering, mathematics, and computer concepts with molecular, cellular and systems neuroscience. This track is hosted by ESPCI Paris, Arts et Métiers ParisTech and Paris Descartes.

Cognitive Science Bachelor Degree

Université de Paris | 2016 – 2018

Technical management university technology diploma (DUT GEA)

Institut universitaire de Sceaux | 2012 - 2014

Track: Finance and Accounting