



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 looking for a Data Analyst/Scientist position. Curious, autonomous and pragmatic, always ready 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 – Tableau | Matplotlib | Seaborn – Scikit learn – Tensorflow | Keras – Docker – AWS (EC2 | S3) – Dask – Git | Github – MS Office

Certifications

- Tableau Desktop I & II Certification
- TOEIC (Score: 920 – English C2 level)

Projects

Portfolio

- **Microsoft Malware Prediction**
Handle Big Data (10 M rows & 83 columns) with cloud clustering using Dask
- **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

- Parallel computing with Dask
- Price prediction using AutoML with AWS SageMaker Autopilot
- How to explain your ML model with SHAP

Experiences

Research Engineer

Centre d'Energie Atomique - Neurospin | february - June 2020
Tools : Python (Numpy, Pandas, Scikit-learn, Matplotlib), AWS

- Propose different approaches to research topics
- Define methodologies, research protocols
- Develop scripts for the segmentation of brain regions
- Collecting, cleaning and structuring the data obtained by MRI
- Control the quality of the data, detect outliers
- Implementation and evaluation of various Machine Learning (ML) and biostatistics methods (linear and nonlinear multiple regression)
- Use of Cloud computing to accelerate data processing (AWS EC2, S3, SageMaker)
- Valorization of the results obtained, and popularization of the methods used (reports with data visualization)

Data Analyst

INSERM | december2018 - june 2019 (400 hours)
Tools : Python (Numpy, Pandas, Statsmodels, Matplotlib), R

- Collecting, cleaning and structuring behavioral data
- Implementation and evaluation of different biostatistical methods
- Valuation of the results obtained, and popularization of the methods used (reports with data visualization)

Education

Biomedical Engineering Master Degree

Université de Paris – Arts et Métiers – Université PSL | 2018 – 2020
Track: Bioengineering and Innovation in Neuroscience
Obtained with honours
Engineering – mathematics – Python programming - molecular, cellular and systems neuroscience

Data Science Bootcamp

Vivadata | June – August 2019 (400 hours)
Python Programming – Data Collection & Analysis – Supervised & Unsupervised Machine Learning – Data Engineering – Deep Learning

Psychology Bachelor Degree

Université de Paris | 2016 – 2018
Obtained with high honours
Cognitive psychology – Neuroscience – Data analysis & statistics – R & Matlab programming

Technical management university technology diploma (DUT GEA)

Institut universitaire de Sceaux | 2012 - 2014
Track: Finance and Accounting
Obtained with honours