

TAGHADOUINI Said

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PROFESSIONAL EXPERIENCE

- **BNP PARIBAS Cardif** Paris, France
Data Scientist Intern April 2023 - September 2023
Proficient in the creation of OCR models tailored for recognizing and discerning handwritten and digital text within scanned documents.
 - Utilized cutting-edge models to optimize system performance and reduce inference time effectively.
 - Developed text-to-image generation models employing diffusion models and GANs, resulting in a significant augmentation of OCR capabilities.
- **Zaion** Paris, France
Data Scientist Intern February 2022 - August 2022
Developed a robust method for predicting wait times in call center queues using sequence models, including RNN, LSTM, and TCN.
 - Implemented a sequence modeling approach for wait-time prediction, resulting in a remarkable 50% reduction in Mean Absolute Error (MAE).
 - Utilized Monte Carlo Dropout to assess and quantify the uncertainty of predictive models.
 - Applied BERT-based models to predict customer churn by analyzing textual data from client-bot conversations.
- **RTE** Paris, France
Data Scientist Intern May 2021 - October 2021
Designed an algorithm to estimate the risk of failures in electrical grid components by leveraging machine learning and statistical techniques. The algorithm was deployed internally to streamline risk assessment processes.
 - Conducted extensive data preprocessing and extracted valuable insights from a substantial dataset comprising over 1 million rows of electrical grid data.
 - Developed a robust algorithm for calculating failure risk for various grid components, contributing to more informed decision-making and proactive maintenance strategies.
 - Created an interactive web application to facilitate user-friendly utilization of the risk estimation algorithm, enhancing accessibility and usability for stakeholders.

EDUCATION

- **École Centrale de Lyon** Lyon, France
Engineering degree - Computer Science 2019 - 2023
Main courses: Probability theory and to stochastic processes, Applied Statistics for Engineering Sciences, Time Series forecasting, Introduction to financial mathematics, Advanced Tools for Learning; Convexity & Sparsity, Machine Learning, Operations research and optimization, Collaborative algorithms and applications, Web applications, Numerical methods for PDEs.
- **Université Claude Bernard Lyon 1** Lyon, France
MSc Data Science 2022 - 2023
Main courses: Machine Learning, Deep Learning and Artificial Intelligence, Probabilistic Graphical Models, Computer Vision, Reinforcement Learning, Natural Language Processing.

PROJECTS

- **Deep Dream - Neural Style Transfer:** Implement Neural Style Transfer (NST) to transfer the style of one source image to another while keeping its content. The VGG19 model is used for extraction of low-level features (Style) and high-level features (Content).
- **RIG-Chess - Reinforcement Learning with Imagined Goals (RIG) for Chess:** Unsupervised representation learning and reinforcement learning of goal-conditioned policies applied to the game of chess. A generative model, VAE, is used to generate chess configurations that will serve as goals that the agent is going to try and reach.
- **Natural language to regular expression:** Building a model to translate natural language sentences into valid regular expressions. The first version of the project uses an LSTM-based Encoder-Decoder architecture.

SKILLS SUMMARY

- **Computer Vision:** Transformers, CNN, Object detection, Image Segmentation, Self-supervised learning, Visual NLP (OCR, LayoutLM, Donut), Generative models(GAN, Diffusion, etc)
- **Machine Learning:** PCA, SVM, K-means, Random forest, Bayesian models, Ensemble methods...
- **Languages:** Python, R, Matlab, C/C++, SQL, Bash
- **Frameworks:** OpenCV, Numpy, Pandas, PyTorch, Keras, JAX, Scikit-learn, pytest
- **Tools:** Docker, Git, AWS, Azure, Linux