URSZULA CZRWINSKA

DATA SCIENTIST

PROFESSIONAL EXPERIENCE

NLP engineer at French Supreme Court

Senior Data Scientist, june 2020 – currently, Cour de Cassation, Paris

- LM, NER, Classification (flair, hugging face transformers, pytorch, spacy, allennlp, mongo, elasticsearch)
- Managing data pipelines: DVC
- Data evaluation, models testing & monitoring.

Machine Learning projects tailored to the needs of our clients from CAC40

Senior consultant Data Scientist, June 2019 – June 2020, Saegus, Paris

- **Société Générale:** XAI : user story on algorithms interpretability (SHAP, Alibi, contrefactual predictions, sckitlearn, jupyter notebooks, OOP python code)
- Servier: NLP analysis of biotech patents: classification, NER (Elasticsearch, Python: scikitlearn, spacy, flair, tensorflow, pytorch, Azure)
- Show case for tech conférence **EGG PARIS 2019**: keywords extraction from Medium blog posts (Dataiku DSS, Python, spacy, API: flask, js)

Data management et data strategy for indirect purchasing consultancy

Lead data scientist, Nov. 2018 – May 2019, JICAP-PERFORMANCE, Paris

- realized POCs (python) of data extraction from PDFs (text and images)
- formulated a strategy of management et data sharing
- leaded development of the analytics branch of the company

Data Science applied to biomedical sciences

Junior researcher, Oct. 2015 -Nov. 2018, Institut Curie, Paris

- analyzed large data (>100Gb) the biggest referenced study of its kind, using machine learning, statistical and distributed computing tools; improved state of the art by 5 % creating a new analytical tool (R package); demonstrated a novel application of an algorithm (Independent Components Analysis) in oncoimmunology; created dashboards (Tableau, RShiny), reports (ppt, pdf, HTML) and data visualizations (R ggplot2, plotly)
- took part in 6 scientific publications (of whom lead 2) in different teams of 2-15 people
- gave talks (in front of 20 1000 people) at 6 **national and international symposiums**, won an award in a professional pitch competition, awards of best oral and poster presentations
- taught maths, statistics, and programming at Pharmacology faculty of Paris Descartes (to students in 2nd and 5th year)

OTHER

- wrote chapter 'interpretability of ML models" for a book "Data Science in Tourism", Springer 2020
- co-organized Meetup events « Women in Healthcare and Data Science », 2018-2019
- gave a seminar at Créalise, Réunion, data jobs at Epitech, Réunion, mai 2019
- cofounded a biotech start-up, Apr. 2015- Sept. 2015

EDUCATION

Ph.D. in bio-mathematics, Institut Curie, Paris Descartes, Centre de Recherches Interdisciplinaires (CRI); complementary courses: SciencesPo Paris, L'Ecole Polytechnique, Coursera, 2015-2108

Master, Interdisciplinary approaches to life sciences, CRI, Paris Diderot, highest honors, 2013- 2015

Double bachelor, Biology-Mathematics, UPMC, Paris VI, honors, 2010-2013

University exchange, National University of Singapore, Singapore, 2012-2013

Bilingual French-Polish high school, Warsaw, Poland, high honors, 2010



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Projects portfolio:

https://urszulaczerwinska.github.io/works

French and Polish citizenship Driving license type B

SKILLS

Technical

Python, SQL, Git, tensorflow, pytorch, spacy

OS: Unix/Mac, Windows

Languages

French, English, Polish Spanish, Russian