



Manuel Capel

Résumé

Education

- 2000–2002 **Classes préparatoires**, *Preparatory classes to engineer schools*, Lyon, FR.
- 2002–2005 **ENSAI**, *French National School of Statistics and Information Analysis*, Rennes, FR.
- 2009–2010 **University Paris VI**, *Bachelor of Mathematics by distance learning*, Paris, FR.

Experience

Vocational

- aug 2017–present **Data Scientist**, *Ringier AG*, Zurich, CH.
Solving use cases and building production pipelines.
 - Building the whole data pipeline for matching users through different platforms
 - Developing recommender system for online articles
 - Developing model for gender prediction
 - Developing models for comment filtering
 - Developing model for bot detection based on behavior
 - Visualisation and prediction of media content virality (social graph)
- jun. 2017–jul. 2017 **Data Engineer**, *Everycs*, London, UK.
Extraction, transformation and loading of product data
- apr. 2017–may. 2017 **Data Analyst**, *AccessWatch*, Berlin, DE.
Developing machine learning methods for bot detection
- feb. 2017–mar. 2016 **Data Preparation Expert**, *Wealthport*, Zurich, CH.
Processing data transformation pipeline
- oct 2013–oct 2016 **Scientific Assistant**, *Zurich University for Applied Sciences*, Winterthur, CH.
Worked on several projects related to data analysis and process design.
 - Developing ageing models for water pipes
 - Developing optimization of maintenance program for vessel hulls
 - Redaction of scientific reports
 - Project definition with costumers and team
- mar. 2013–aug. 2013 **Java Developer**, *Nextevolution*, Berlin, DE.
Developed on templates and authentication system for a Document Management System

Steinberggasse 24 – 8400 Winterthur – Switzerland

☎ +41 786 668 4357 • ✉ manuel.capel82@gmail.com

in [manuel-capel-9a9b40134](#) • 🔗 [mancap314](#)

- dec. 2011–feb. 2013 **Developer**, *Medizinischer Fakultätentag*, Berlin, DE.
Worked on several projects related to data analysis and process design.
- Conception, modelization and development of a web application to collect and evaluate data from German medicine faculties
 - User training and assistance
- oct. 2008–sep. 2011 **Main Officer**, *Federal Statistical Office of Germany*, Wiesbaden, DE.
Assisting project management and development.
- Guidance for the migration of an Content Management System
 - Implementation of parts of the project
- apr. 2005–sep. 2008 **Developer-Analyst**, *INSEE*, Aix-en-Provence, FR.
Assisting project management and development.
- Assisting project management and development
 - Implementation of parts of the project
 - Referent for web accessibility
 - User training and assistance

Languages

- English: Good proficiency
- German: Fluent
- French: Native
- Spanish: Intermediate proficiency

Machine Learning / Deep Learning skills

- Data Processing: Extraction, processing, formatting, treatment of missing values etc. from data in various formats
- Modelling: Classification, Regression, Ensembling, measuring performance, especially with Python libraries like sklearn and scipy
- Deep Learning: Keras, Tensorflow, PyTorch on different architectures, e.g. CNN or Recurrent
- Visualisation: matplotlib, seaborn, pyplot, plotly, ggplot (R)

Computer skills

- Programming: Python (advanced), R, Java (intermediate), C (beginner)
- (no)SQL: MySQL, PostgreSQL, MongoDB. Experienced in querying very large tables
- Cloud Computing: (AWS) Redshift, Aurora, EC2, lambda, authentication etc.

Miscellaneous

- Webapp retrieving media trends from Google Trends and Twitter: <https://trend-getter.herokuapp.com/>.
- Paper "Improving Supervised Classification with Density Ratio Encoding. Application to Human vs. Robot Classification", 2017.
- Python library *paracoord* for visualizing multi-dimensional data.

Interests

Table Tennis, Chess, Traveling