Dany Majard | Data Scientist

Globally Mobile – France

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Driven and passionate scientist with commercial sense, initiative, outstanding public speaking skills and a knack for challenges.

Projects

Blockchain // Network Analysis   **Google**
Cryptocurrencies , graph database, google BigQuery, SQL   *June 2018-*
Joint work with Allen Day, science Advocate @Google. Analysis of the Bitcoin and Ethereum ledger to improve transparency and raise quantitative knowledge on the cryptocurrencies landscape and smart contracts dynamics.

AdTracking // Fraud Detection   **Kaggle Competition**
Time Series, feature engineering, AWS cloud computing   *Mar-Apr2018*
Leaderboard : Top 15%. Constituted a team of ML students to tackle this cyber fraud challenge. Developed a feature engineering crawler to automatically find independent sets of features for ensembling (cf github).

Corporacion Favorita tores // Forecasting   **Kaggle Competition**
Time series, feature engineering, clustering (python, pandas, sklearn)   *Jan 2018*
Top 10 Kernel - Using 5 years of sales data across 52 stores of the ecuadorian chain, the goal was to predict sales for optimal stocking. I used unsupervised machine learning to create a cluster feature for a gradient boosting regressor.

Blight in Detroit // Binary Classification   **Capstone Project**
Geolocation, NLP, webscraping (python, pandas, sklearn)   *Nov 2017*
Using blight violation tickets and parcel data from Detroit Open Data to predict blight, which is a major problem the city is facing. Extensive EDA and cleaning was needed for models to make factual sense and prevent harmful bias.

Experience

Vocational

Close Brothers (merchant banking)   **London, UK**
Data Scientist (Client facing)   *Aug 2018*
- Provided data science expertise as a service for a client of the bank.
- Produced extensive documentation of data cleaning and exploratory analysis.
- Delivered predictive models for 60 days cancellation reducing overhead costs for background checks by up to 30%
- Delivered predictive models for propensity to take financing, increasing both the bank and the client's yearly earnings.

Career transition to Data science   **Paris, Singapore**
Professional Development   *July 2017-July 2018*
- University of Washington // "Data Science at Scale" Specialization
  R, Python, SQL, NoSQL, Distributive processing (Pig on Hadoop), Machine Learning, Vizualization principles, Ethics
- University of Michigan // "Applied Data Science with Python" Specialization
  Exploratory Data Analysis, Natural Language Processing, Text Mining, Social Network Analysis, Machine Learning
- Khan Academy + Corporate Finance Institute // Various courses on Finance & Capital Markets
- CodeCademy + DataCamp // Web Development + Data Science tracks
- Multiple Data Science contests, hackathons, conferences and meetups

Festka s.r.o. (cycling/luxury)   **Prague, Czechia**
Director of sales & customer relations   *2014-2016*
- Increased sales by 400% by establishing a global distribution network of 24 partners.
- Created a sales analytics and models tools with scripts on google sheets.
- Partnered with Pipefy.com on deployment of their kanban platform to our manufacturing processes.
- Excelled in customer care, with a satisfaction rate superior to 98%.

Masaryk University   **Brno, Czechia**
Post-doctorate Fellow   *2012-2014*
- o Continued work on own research program on higher cubical category theory and higher cubical groups.
- o Developed and taught a course on graphical calculus for postdoctoral fellows and professors
- o Gave talks in many prestigious universities, including Cambridge and Oxford.
- o Organized weekly meetings for research updates and brainstorming.

Kansas State University   **Manhattan, KS, USA**
Graduate Teaching Assistant   *2007-2012*
- o Mentored undergraduate research on Finite Double Groups.
- o Taught university-level mathematics to classes of ~30 young and non-traditional interdisciplinary students
- o Coordinated courses of ~200 students.

Other

Personal Journey   **Asia/Pacific**
Travels   *Jan-July 2017*
- o Rode a 2500+ km unassisted solo cycling trip and competed in the AHBPC 2017.
- o Visited the Tibetan government to explore opportunities teaching modern sciences to buddhist Monks and Nuns.
- o Crafted Yirdakis with Djalu Gurruwiwi, elder of the Galpu clan and guardian of 60k+ years of wisdom (Arnhem Land)
- o Attempted the development of a mobile app in C# on Xamarin.

EHBA - European Hardcourt Bikepolo Association   **Europe**
Founding Board Member, Head   *2014-2016*
- o Developed the structural foundations of the organization.
- o Maintained communication with the North American and Pacific organizations.
- o Restructured EHBA around 6 poles of development, each with a 2 year mission statement before resigning.

Education

Science to Data Science Program (S2DS), Pivigo   **London, UK**
Fellow   *Aug 2018*
- **Highly Selective** One of 2018's 90 PhD holders accepted in the program.
- **Fully immersive** Onboarded in a LSE listed company for an intense 4 week project.
- **Team oriented** Integrated a team of in-house and remote data scientists, working in an agile environment.
- **Impactful** Delivered implementable models to the company's client.

Dept. of Mathematics, Kansas State University   **Manhattan, KS, USA**
PhD, Mathematics   *June 2012*
- **Thesis** Cubical categories, TQFTs and possible new representations for the Poincare group
- **Supervisor** Louis Crane
- **Award** Hostinsky Outstanding GTA in Academics
- **Motivation** Cubical categories simplify high dimensional computations in Quantum Gravity models.

CPT, Universite Aix-Marseille II   **Luminy, France**
MSc, Theoretical, Mathematical and Particle Physics   *June 2006*
- **Thesis** 2nd Quantization of Colored Particles : Quest for the appropriate structure
- **Supervisor** William Joyce, University of Canterbury, Christchurch, NZ
- **Motivation** Non-associative algebras exlpain quark confinement, helping the unification of physics.

IUT de Reims   **Reims, France**
DUT Mesures Physiques   *June 2001*
- **Specialization** Materials and physico-chemical controls

Languages

French	**English**	**Japanese**	**Czech**	**German**
Native	Fluent	Beginner	Beginner	Beginner

Interests

Sport: Played Hardcourt Bikepolo at an international level with Prague's based "Golem". Acroyoga practitioner

Board Games: Great way to sharpen analytic and social skills. Regular volunteer for Stronghold publishing.