

JakubLangr

Entrepreneur & Data Scientist

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business skills

Business dev
Customer validation
Stakeholder analysis
Presentations
Public speaking
Project management
MVP & feasibility

languages

English & Czech native
Slovak good
French good
Mandarin beginner

proficient

Python ♥ (incl.
sk-learn, pandas,
numPy etc.),
Unix, GCP, AWS,
Docker, TensorFlow,
Flask (+ much of the
ecosystem) & SQLite

experience with

JavaScript, MongoDB,
D3.js, Spark, MATLAB
L^AT_EX, Git, SQL, R &
HTML

summary

Oxford-educated Data Scientist with entrepreneurial experience. Loves to spread the power of data and materialize business value of machine-learning. Sort of lives at tech meetups.

experience

- 09/2016-Present **Entrepreneur in Residence, Entrepreneur First** London, UK
Europe's best accelerator (Investor AllStars) specializing in deep tech.
 - Co-founded a stealth deep-learning/AI/social-analytics start-up
 - 80% of time spent on biz dev & outreach: meeting with high-profile financial clients to design a tool to address their problems
 - My cohort had 3% acceptance rate for the best technical founders
- 09/2015-09/2016 **Data Science Tech Lead (hired as Data Scientist), Filtered.com** London UK
Made the business more data driven, building data-driven products.
 - Proposed, designed and implemented A/B testing
 - Proposed, architected and implemented Flask-based API on a designated data science server, booted in a custom Docker VM
 - Lead a team of four and helped others with DevOps and debugging
 - Re-wrote vital ML algorithm in Python, including backend & DevOps
 - This work was subsequently awarded a £100,000 Innovate UK grant
 - Proposed growth hacking and site optimization strategies
 - Researched and experimented with TensorFlow (deep learning)
 - Brought the team up to a new stack (Python, git, Docker, Pandas, numPy and Scikit-learn) and lead classes on it
- 06/2014 - 09/2014 **Data Scientist, Pearson Plc** London, UK
Hired on 3 mo. contract, focused on discovered suitable datasets in Pearson.
 - Got an open-ended project to design, analyze and deliver independently
 - Managed to find additional data that improved the performance of one of our models 275% (relative to previous models)
 - Reported directly to director of Data Science in London, Strand
- 03/2014 - 03/2015 **IT Demonstrator, Oxford University Computing Services** Oxford, UK
Helped students (staff and students of Oxford University) tackle problems in beginner and intermediate classes on R, Linux, Excel & L^AT_EX.
- 07/2013 - 09/2013 **Data Analytics and Visualizations Intern, Pearson Plc** London, UK
Did data science in R on GBs of data. Learned how to scrum and not Git lost.
 - Customer-satisfaction model in R run on a dump of production database
 - Matching model metrics (F1, recall etc.) to business needs
 - Cooperation and consultation with teams in Boston and Poland
 - Side projects: D3.js visualizations, JavaScript-based (Node & CoffeeScript) front-end, elasticSearch queries to Hadoop
- 07/2012-09/2012 **Independent Consultant, TPA Horwath** Prague, Czech Republic
Performed EU legislation analyses, but later plugging into other team's projects.
 - Analyzed EU agriculture policy proposals; consulted with stakeholders
 - Data-driven analyses of transfer pricing and profitability
 - Market size estimation & acquisition proposals and structuring

education

University of Oxford

Bachelor of Philosophy, Politics and Economics, 2.i

Scholarships: Zdenek Bakala Foundation, Kellner Family Foundation, St. Peter's College Collection Prize

Final papers: Econometrics, Mathematical Methods, Quantitative Economics, Microeconomics, Macroeconomics, Sociology, Comparative Government, Quantitative Methods in Politics and Sociology

Involvement: Oxford Student Union's Student Advisory Group for IT, Oxford Microfinance Initiative, Student Economics Undergraduate Joint Consultative Committee (Member, Secretary, VP), CapitOx (IT Officer for 2 years, Banking Committee and Treasurer), Undergraduate Divisional Representative, St. Peter's College Boat Club

Finished MOOCs, selected out of 17+

Coursera, edX, Udacity

UC Berkeley's: Scalable Machine Learning, grade A; IIT's Web Intelligence and Big Data (with distinction) , EPFL's Initiation à la programmation (en Java), Udacity's Algorithms , Data Wrangling with MongoDB; MIT's Science of Uncertainty, Computational Thinking and Data Science; University of Michigan's Social Network Analysis (Signature Track, with Distinction); Stanford's Machine Learning, Economic and Social Networks, Statistical Learning, Algorithms Design & Analysis, Part 1; Boston University's Non-linear differential equations

selected projects

hackTrain '15: PlanAroo: Collaborated with the rail industry to create a Flask web app for smart scheduling Placed as 4th on this highly prestigious & competitive hackathon.

IDEA [Czech think tank] study about the efficiency of government: helped the NGO and a university professor perform clean data using Excel and R

GJP: participated in a selective and paid US intelligence community sponsored research project run by UC Berkley professors Good Judgment Project aimed at robust forecasting

Kaggle Top 25%: Liberty Mutual Property Inspection Prediction

Kaggle Top 25%: Springleaf Marketing Response Prediction

Kaggle Top 25%: BNP Paribas Claims Management

awards

- Won one of the initial 22 scholarships out of 6,500 applicants to Web Summit
- Global Debate and Public Policy Challenge 2012/2013, 2013/2014: **Top 50**
- International Public Policy Forum: **World Champion 2012**; team captain

conferences

Co-organized: **State of the Markets 2014 Conference** (John Nash, Dr. Johannes Teyssen and Eric Maskin) and **Aspen Institute Prague Launch Conference** (Madeleine Albright, Sir Malcolm Rifkind, Lord Peter Mandelson)

Panel speaker: European Economic Congress 2015: EU 2030 – Vision for Europe, other speakers included Leszek Miller (former polish PM), Prince Michael von Liechtenstein and German and French ambassador to Poland.

Interests: Improv (performed with Hoopla), DSLR photography, philosophy & debate.