

Guillaume Allain

18 Oxford Castle
OX1 1AY Oxford
Mobile: +44711033853
guillaume.allain@gmail.com



Profile

An experienced data scientist with a strong industrial and academic background in statistics and machine-learning, dedicated to solving real-world big data problems. Fluent in data analysis and visualisation tools like Python and R, he also has a proven experience in enterprise-level software development and team management. Also has great communication skills towards technical or business audience honed during his Ph.D. and throughout his work experience.

Work Experience

- | | |
|--------------------|--|
| 2013 - 2015 | Senior data scientist and engineer at Blinkbox Music, Oxford <ul style="list-style-type: none">• Bringing in a mixture of math and engineering skills to the recommendations team at http://www.blinkboxmusic.com/, powering algorithmic playlist generation and various personalised products based on users' consumption data (billions of data points per day)• Implementing off-line and on-line algorithms using a mix of big data technologies and python scientific libraries• Devising and refining on-line and off-line metrics to validate hypotheses and new algorithms through AB testing |
| 2011 - 2013 | Team lead at Mediamobile, Paris <ul style="list-style-type: none">• Leading a 5 persons software development team powering the data collection and aggregation back-end of a pan-European road traffic information services editor (http://v-traffic.com)• Supporting sales and marketing team by providing visual and quantitative materials for public relation communications |
| 2008 – 2011 | Data scientist at Mediamobile, Paris <ul style="list-style-type: none">• Evaluating new data feeds, mining business crucial information through ad-hoc analysis and visualisations• Experimenting and implementing with cutting edge statistical models (anomaly detection, robust statistics) through a collaboration with an academic laboratory |
| 2005 – 2008 | Postgraduate student at Mediamobile <ul style="list-style-type: none">• Academic and industrial collaboration about <i>Road traffic forecast and analysis through statistical methods</i> resulting in a commercial product• Analysis and statistical modelling using R |

Education

- | | |
|---------------------|---|
| 2005 - 2008 | Postgraduate degree in applied mathematics and statistics <ul style="list-style-type: none">• Graduated from Université Toulouse III with Professors Fabrice Gamboa and Jean-Michel Loubes from the statistical team of Toulouse Mathematics Institute as doctoral advisors• Writing a PhD thesis and scientific publications |
| 1999 to 2004 | Master's degree at Institut National des Sciences Appliquées de Toulouse <ul style="list-style-type: none">• French engineering school in applied mathematics and statistics• Machine and statistical learning theory and applications (neural network, SVM, generalised linear model, model selection theory) |
| 2003 | Natal University, Durban South-Africa <ul style="list-style-type: none">• 6 months courses in financial mathematics and statistics |

Skills and expertise

- | | |
|---|---|
| Data-Mining tools | <ul style="list-style-type: none">• Expert in Python's data toolkit (numpy, pandas, matplotlib and sklearn)• Previously used of R statistical analysis and visual libraries (ggplot2)• UNIX scripting (grep, awk, sed)• NoSql and Sql databases (mongoDB, postgresSQL, hive, ...)• Web-mapping APIs (Google Maps API, OpenLayers, Mapserver) and Geospatial database (postgres/postgis) |
| Enterprise software development | <ul style="list-style-type: none">• 5 years of experience with Microsoft's .NET framework and C#• Application life-cycle management Visual Studio 2010/Team Foundation Server and IntelliJ/Jira)• Used Java in several projects using latest libraries (Feign, Guice, Mockito) |
| Software development methodology | <ul style="list-style-type: none">• Promoting Agile and lean principles (YAGI, KISS, ...) in my current job• Avid reader of technical books (Code Complete, Clean Code, ...)• Accustomed to collaborate with decentralised team (remote working) |
| Typesetting and editing software | <ul style="list-style-type: none">• Regular use of Microsoft office suite for professional communication• Intensive use of LaTeX for my thesis and scientific communications |
| Languages | <ul style="list-style-type: none">• French as native tongue• Full proficiency in English (used on a daily basis) |

Availability

- Eligible to work in the UK
- Tied with a 3 months notice with my current employer: 17th of August 2015