

DATA SCIENCE IN PRACTICE

Masterclass

04 - 04 - 2019 | 05 - 04 - 2019

13 - 06 - 2019 | 14 - 06 - 2019

DUBLIN

Talent Garden Dublin





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**We are people
who believe
in sharing,
networking and
collaboration**



THE MASTERCLASS

This 2-day Data Science in Practice Masterclass takes data professionals into specialist topics that otherwise would be hard to discover on the web. We learn about the new theory behind deep learning and why it's so effective and demo the newest data visualization & predictive analysis tools. We also workshop data explorations using R and the tidyverse and will build interactive dashboards with the latest Power BI innovations from Microsoft.

Hands-on data science workshops are designed to equip participants with new technical skills and knowledge to align their data analytics functions with core business objectives and deliver greater value to their organisation. It's a comprehensive training course that helps professionals to deliver in environments that increasingly expect real-time data and real-time deployments.

**Data Science
in Practice
Masterclass**

WHY ATTEND?

Who is this Masterclass for?

Data science professionals and those wishing to learn more about the field - typically IT professionals, Business & data analysts, scientists, and software engineers seeking to learn more, upskill and gain competitive advantage from their data.

Why attend?

Data science is crucial to modern business and mistakes in the field can be incredibly costly. We have selected seasoned industry experts to provide hard-won knowledge that is difficult to acquire from the web. While the fundamentals of deep learning are covered, participants benefit from practical industry-led workshops that cover the most popular technologies and platforms (R, Power BI) for data science and their application. Most importantly, gain valuable industry insights into how to gain competitive advantage from data.



LEARNING OUTCOMES

- 1 Understand the principles behind why deep learning is so effective
- 2 Apply deep learning in a business context
- 3 Workshop the latest data visualisation tools
- 4 Workshop the latest Power BI innovations from Microsoft
- 5 Workshop the basics of data exploration using R and the 'tidyverse'
- 6 Build interactive dashboards with incorporated predictive models, and get them hosted online so that people can write natural language queries to explore your outputs.
- 7 Expand your network of professionals connections

AGENDA

DAY

1

Lecture Deep Learning Theory - Dr. Finn Macleod

Large-scale data science teams can often fall into two camps. Firstly the deep learning camp - experimentalists who get phenomenal results, exemplified by the various AlphaGo results. Secondly, there are the Bayesians, who believe that the deep learning teams don't understand the theory behind what they are doing, and thus are not aware of their own limitations. This class presents the bridge between these approaches, and what this means for the predictability of data. This enables a fundamental understanding behind why deep learning works the way it does.

This is an in-depth technical class that provides the fundamental theory behind why deep learning does what it does. Whilst it is technical and requires a degree of mathematical fluency, it requires no prior knowledge.

Workshop Data Exploration and Why It Is Important - Mick Cooney

The most important thing to do when you get a dataset is to look at it. Data exploration is the often-under-appreciated part of any data analysis, but is crucial to any serious data modelling. This workshop will explain the basics of data exploration using R and the common set of packages known as the 'tidyverse'. We will show how to systematically investigate a dataset, decide what to do with missing data, check data encodings and how to deal with high-cardinality categorical data. Heavy emphasis will be placed on simple statistical summaries and plots.

AGENDA

DAY 2

Workshop Leveraging Power BI - Steph Locke

As the demand for analytics and data science increases, we not only need to surface our models in easy to consume ways but people need to be able to explore and monitor how the business is being impacted. Power BI allows us to incorporate data science languages, R and Python, with an intuitive interface that helps put actionable insight into the hands of everyone in the organisation. Learn how to build interactive dashboards with incorporated predictive models, and get them hosted online so that people can write natural language queries to explore your outputs.

Workshop Data Visualization - Dr. Finn Macleod

A great piece of analytics work can get lost if not well communicated. This data visualization workshop will help participants to stand out with in-house presentations, gather more eyeballs on their web content, and shine in technical sales pitches. We work with new tools for building data visualization that cut the time taken to create data visualizations by an order of magnitude. This session is both fun and practical - by the end participants will be able to recreate famous and complex graphics.



TALENT GARDEN FACULTY

A people school

Our faculty come from a wide range of backgrounds including IT, Business, Emerging Media, Education, Design, HR, Psychology, Philosophy, Creative Arts and many other related areas. We are educators who are committed to the student learning experience and to taking an 'action learning' approach to teaching. We do this through delivering interactive lectures and practical workshops that are grounded in theory but focused on real-world application.

All our courses have a strong underpinning of digital and innovation themes intended to open up the world of technology and the abundance of new opportunities that this brings to business and society.

TEACHERS

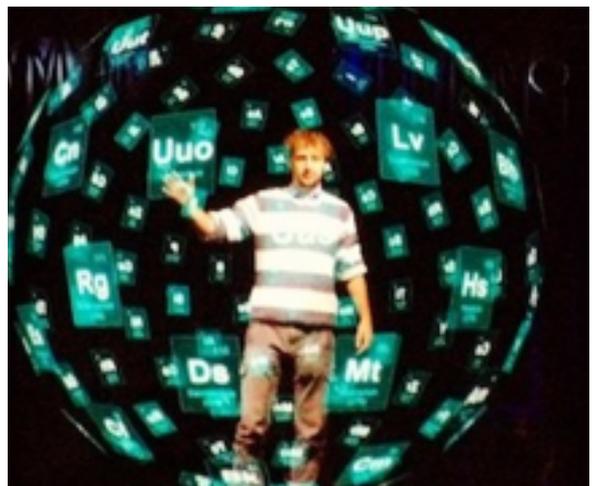


Ruth is an experienced education designer and facilitator who has delivered a broad range of digital and innovation programmes to a wide range of groups from graduate, to PhD to c-suite. She is passionate about action-based learning and its impact on the individual, team and organisation. Prior to joining Talent Garden as School Director, Ruth worked as Programme Manager for Trinity Innovation & Entrepreneurship Hub, DIT Hothouse Innovation Centre and as Account Manager for creative digital agency Elucidate.

Ruth Kearney

Dr. Finn Macleod is a former mathematician with a PhD in predictive complexity. He has built, sold and designed dashboards for clients such as Thomson-Reuters, Formula 1 (via Meshh) and Heineken. Finn and Edward Kibardin (the ex-chief data scientist of Badoo) partner on the project DataRefiner, a hybrid tool that uses deep learning and TDA (topological data analysis) to understand and segment complex data sets. Finn has also been known to do improv theatre in his spare time.

Dr. Finn Macleod,
BeautifulData.ie



TEACHERS



Steph is one of only fifty-eight individuals in the world to be recognised with Microsoft's Artificial Intelligence Most Valued Professional award. She is the founder of Locke Data, a UK-based data science consultancy. Steph's got more than a decade in both technical and managerial roles around Business Intelligence and Data Science for startups and mature organisations. She shares this knowledge through her consultancy, her new Nightingale product, and her technical community work.

Steph Locke,
itsalocke.com

Mick is a quantitative analyst working on data science type projects in financial services, primarily in insurance. Previously he developed volatility forecasting models in trading businesses focusing on North American equity and equity index derivatives. He advises and assists financial services companies on managing and implementing data-driven processes within their organisations. A regular attendee of tech-focused Meetups in Dublin, he gives regular workshops on various statistical and programming techniques as part of the Dublin Data Science meetup.

Mick Cooney,
[Agrippa Data Consulting](#)



INFO

When

This 2-day Masterclass takes place on the:

04 - 04 - 2019 | 05 - 04 - 2019

13 - 06 - 2019 | 14 - 06 - 2019

Cost

The Masterclass costs €1,250: discounts will be given on multiples from the same organisation.

Cost includes light lunch, snacks and refreshments throughout the course.

A social event held in the Community Kitchen will be hosted by Talent Garden.

Location

The Innovation School, Talent Garden Dublin, DCU
Alpha Innovation Campus



THE FUTURE OF WORK

Co-working is estimated to grow to 30% of total corporate working space by the year 2030, putting Talent Garden at the forefront of the future of work. This is why we are focused on building our community rather than the spaces themselves. Our 'taggers' are a key part of the learning journey at the Innovation School.

This fusion of managers and boot-strapping entrepreneurs in a fun and creative environment is a real win-win for all. Experiential learning meets formal training in a fun way, providing grassroots insights into digital and innovation transformation.

Talent Garden is not just for tech freelancers and start-ups; many larger organisations are jumping onboard to take advantage of the entrepreneurial community, facilities and the new 'co-working innovation' model. Partners including Disney, Cartier, Vodafone and many more are taking this unique opportunity to develop business or simply keep their ear to the ground regarding digital innovations and attracting top talent.

**The place
for explorers
and innovators**

**“
OPPORTUNITIES
DON'T
HAPPEN.
YOU CREATE
THEM.”**



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and Bootcamps on our website**

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