



EXPLOR

DATA SCIENCE
FOR HIGH SCHOOL
PROSPECTUS

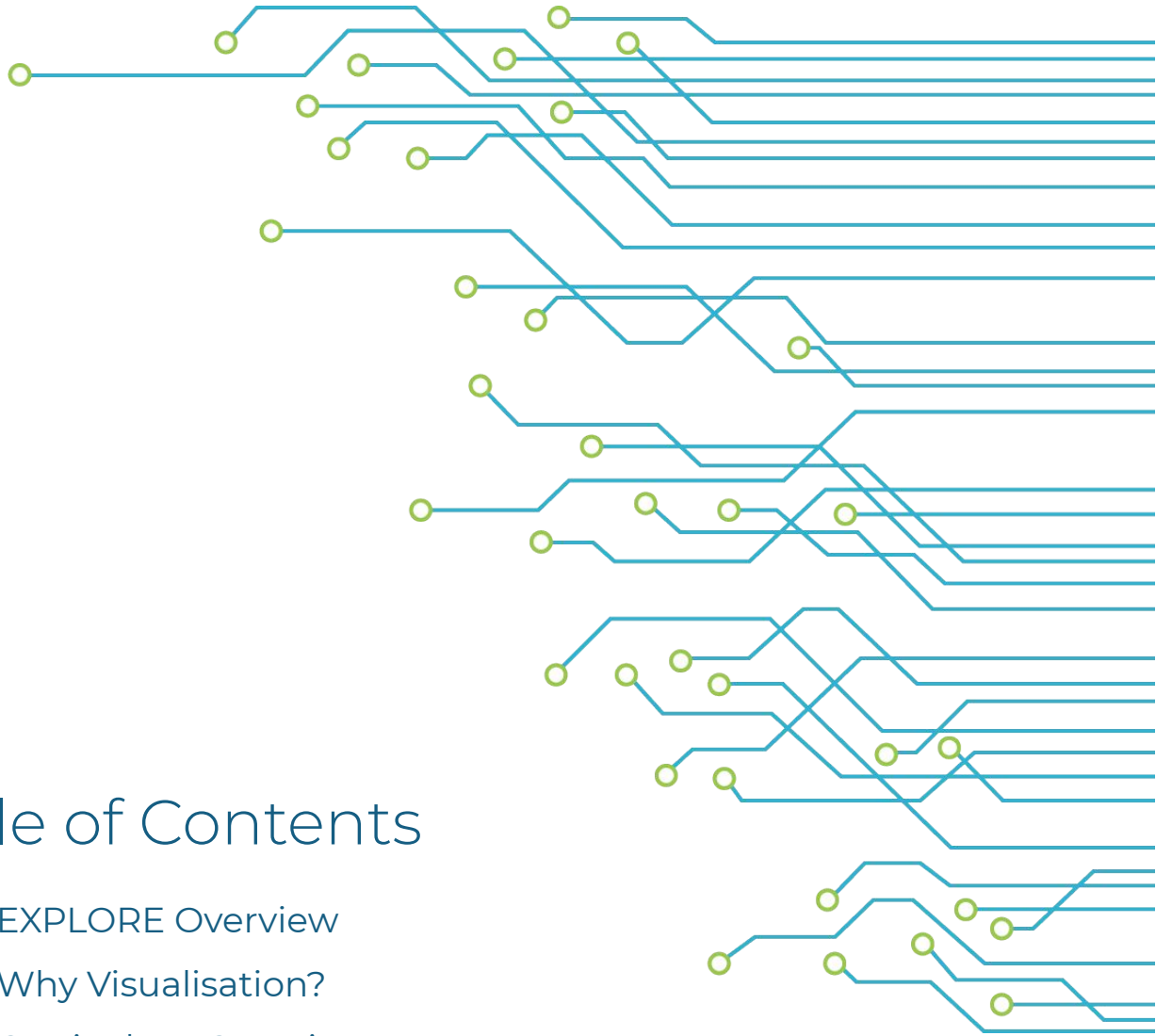


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EXPLORE Overview



EXPLORE is a next generation Learning Institution that teaches students the skills of the future. From Data Science to Data Engineering to Machine Learning to Deep Learning we deliver cutting edge courses to satisfy your hunger to

learn. Our Programmes are built by an amazing Faculty - we employ some of the world's most talented Scientists who have experience solving difficult problems on a global stage.

Our philosophy is to teach our students how to solve problems in the real world. We emphasise team-work, collaboration and working within constraints, under pressure, with deadlines while understanding context, audience and implementation challenges. We are not a theoretical institution (although we cover the theory) - we are a 'practical, hands-on, roll-up-your-sleeves and get stuff done' kind of institution. As real-world Scientists who have delivered impact in the world of work we're well positioned to deliver these skills.

EXPLORE launched during 2013 and since then has taught 1,000's of students and solved many problems for businesses across multiple Industries across the world. We're reinventing education and invite you to join us to change things for the better.

EXPLORE

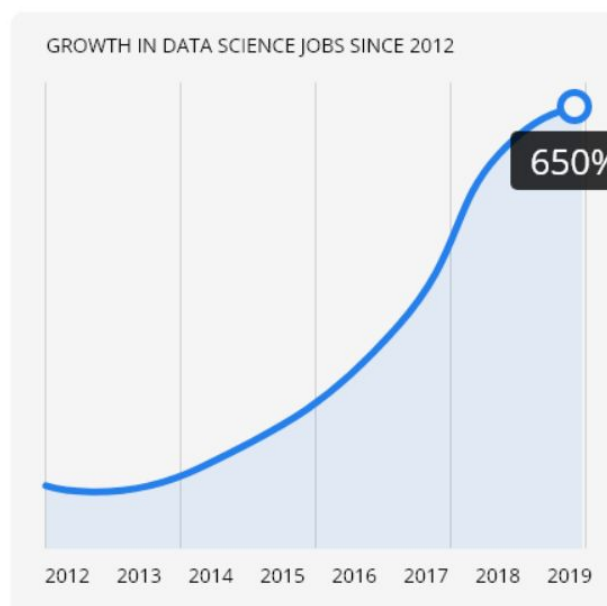
Why Data Science?

Four megatrends are fundamentally changing the shape of our world:

1. Vast amounts of data are being generated every minute.
2. The processing speed of our machines is increasing exponentially.
3. We now have cloud providers who can store insane amounts of data for a few dollars.
4. Powerful open source algorithms that can read, write, translate and see are now available to everyone.

Data Science is the skillset used to harness the power of these tectonic shifts in our world. With the Data Scientist's tool-kit almost any problem can now be solved.

It is no surprise that Data Scientists are one of the most highly paid and in demand skills of the 21st Century. In fact, the job 'Data Scientist' was rated the 'sexiest profession of the 21st Century' by the Harvard Business Review.



Curriculum

Data Science for High School

Duration: 6 months

Recommended Time: 100 hours

Tools Learnt:  python™

What is covered in the course:

Program

Building blocks to analyse data

- Intro to google colab
- Practical data science examples
- Python data types - numbers, objects, variables, booleans, operators
- Conditionals, functions, loops
- DataCamp courses to sharpen python skills

Present

Visualising and interpreting insights

- Basics of data visualisation in Python using libraries like matplotlib
- Using Bokeh library to create interactive dashboards and charts

Predict

Make sense of the future

- Introducing the world of prediction
- Build a linear regression model in Python
- Statistical knowledge required for supervised learning
- Supervised learning algorithms using Scikit Learn library
- Classification algorithms - logistic regression and support vector machines

EXPLORE Philosophy: Solving problems in the real world

At EXPLORE we focus on building our student's ability to solve problems in the real world. Building things that work and make a difference is hard - that's what we teach.

We're not a traditional learning institution that spends weeks teaching matrix multiplication on a whiteboard (although understanding that is useful) - we're a practical, solution-orientated institution that teaches our students to work in teams, under pressure, with deadlines while understanding context, constraints and the audience.

Our courses are typically broken into Sprints where we teach a core set of concepts within the framework of solving a problem in a team with a tight deadline.



Students cycle from Sprint to Sprint solving different problems in different teams as they build this core muscle over the course.



Contact Information

For any **admissions related enquiries** mail us on:
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