

The future of
business, today.

B Imperial College Business School | Executive Education

Children's Services Data Analyst Apprenticeship



Introducing Corndel



An award-winning strategic skills partner offering transformational apprenticeships.

- UK leader in management, data & tech apprenticeships
- 4000+ learners on programme



Driving global business and social transformation through the fusion of business, technology and entrepreneurial mindset.

- World-leading researchers pioneering practical solutions
- Consistently ranked among the top business schools in Europe and worldwide



90%
student growth since 2018
(fastest UK apprenticeship provider)

91%
student satisfaction across
our development programmes

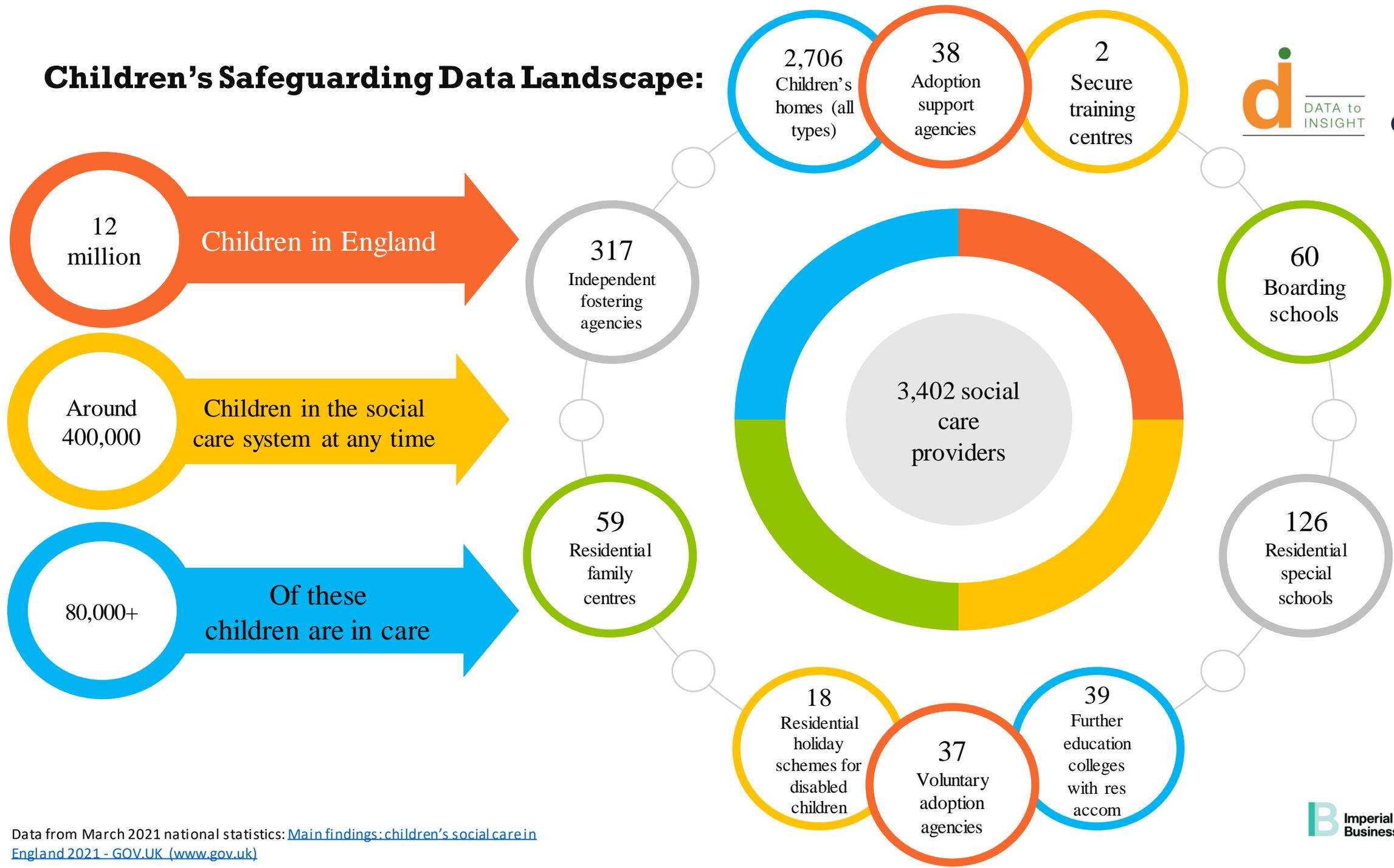
9/10
Quality rating from
employers



Data to Insight



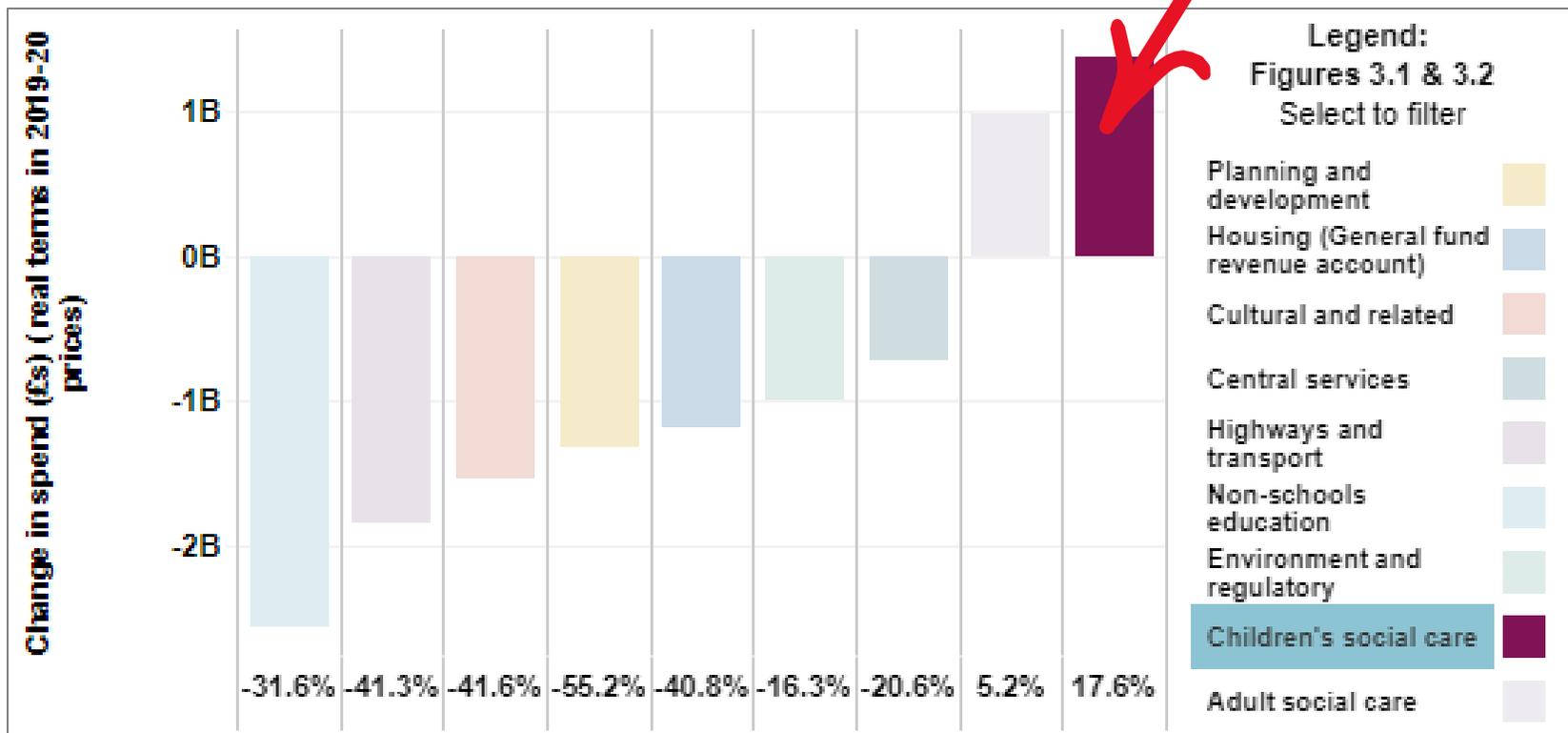
Children's Safeguarding Data Landscape:



Data from March 2021 national statistics: [Main findings: children's social care in England 2021 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/statistics/main-findings-childrens-social-care-in-england-2021)

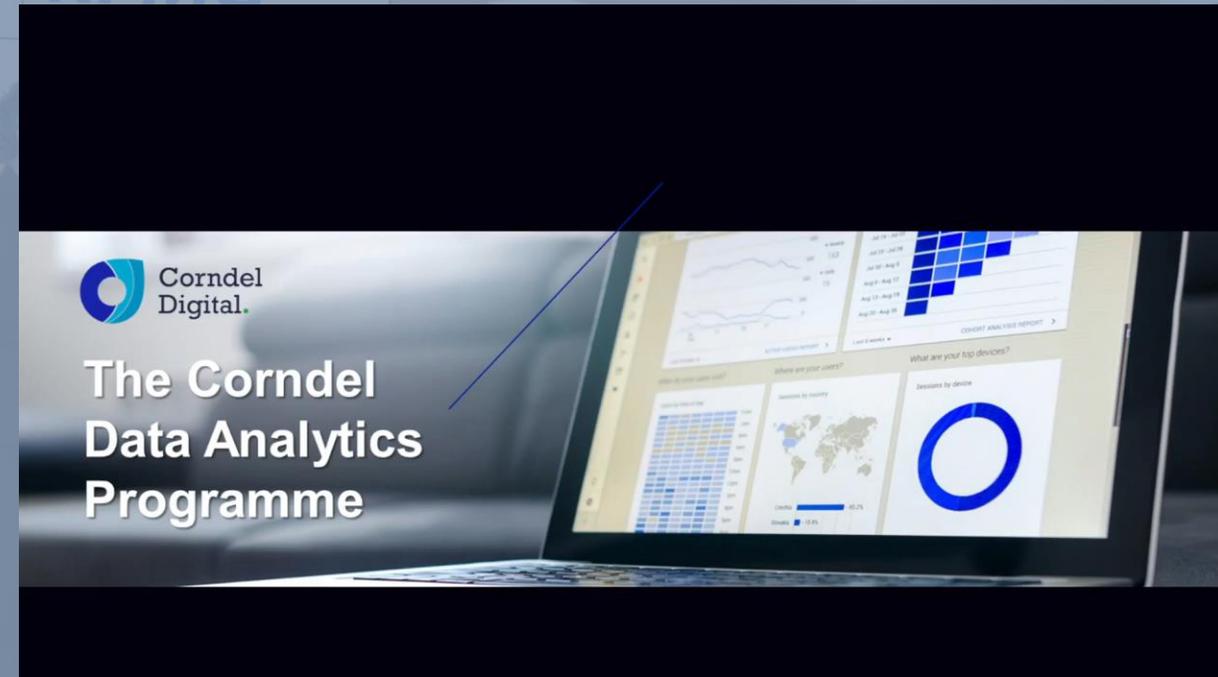
Children's Safeguarding Cost:

Fastest growth of any major local gov area of spend



Tailoring to Children's services

- ✓ Practical, deep-dive workshops using tailored data sets relevant to specific roles within the Children's Services
- ✓ Guest speakers from the Data to Insight network who attend workshops to contextualise key concepts and datasets to the Children's Services environment
- ✓ Individual portfolio of work-based data analytics projects specifically aligned to Children's Services
- ✓ Networking opportunities across Local Authorities. Access to Data to Insight Slack community and a dedicated apprentices channel





Corndel's partnership with **Imperial College Business School**



- ✓ The academic excellence of a global, leading business school



- ✓ The expertise of the UK's leading data & management training provider



- ✓ World-class, high-impact development programme



- ✓ Motivating teams, inspiring change and enhancing business performance



The Imperial College & Corndel Data Analyst Programme



Qualification:

The Corndel & Imperial level 4 Data Analyst Diploma

Programme length:

18 month

Investment in you:

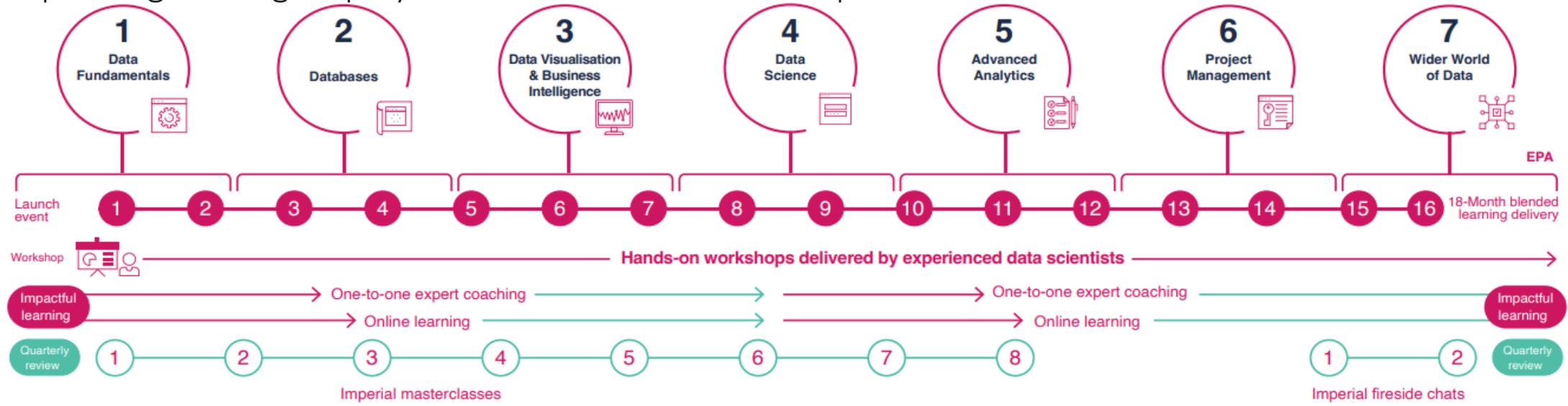
£15,000

You'll benefit from:

- Expert-led one-to-one coaching
- Dedicated point of contact from start to finish
- Exclusive access to Imperial Masterclasses
- Exclusive access to Imperial Fireside chats
- Practical, flexible and accessible resources

Data Analyst programme

Upskilling existing employees who have data is a core part of their role



1. Data Fundamentals

- Wonderful world of data
- Powerful projects
- Types of data
- Data quality
- Structure of data
- Analytics roadmap

2. Databases

- Data governance & data management
- How data is stored
- Working with databases
- Aggregating with SQL
- Database design
- Combining data

3. Data Visualisation & Business Intelligence

- Data visualisation
- Dashboards
- User experience
- Descriptive stats & Data mining
- Samples vs populations
- Statistical analysis
- BI project
- Data Ethics

4. Data Science

- Introduction to machine learning, data science and decision trees
- Coding in Python - getting started
- Decision trees in Python
- Decision trees in industry
- Adapting Python code
- Low code alternatives

5. Advanced Analytics

- Linear regression
- Building a linear regression model in Python
- Implementing a linear regression model
- Linear regression in industry
- Logistic regression
- Building a logistic regression model in Python
- Implementing a logistic regression model
- Logistic regression in industry
- Clustering
- Building a clustering model in Python
- Implementing a clustering model
- Clustering in industry

6. Project Management

- Building a business case
- Stakeholder Requirements
- Planning a project
- Data Architecture, Legislation and Policies
- Combining and profiling data
- Analysing data
- Communicating and reporting results
- Presentation skills I
- Presentation skills II
- Professional discussions I
- Professional discussions II

7. Wider World of Data

- Data security, protection and privacy
- Open source
- Machine learning
- Cloud infrastructure
- Data pipelines
- Data architecture
- Data engineering
- Linux
- Data lakes
- APIs
- Big data, hadoop and spark
- Staying at the Cutting-Edge

Masterclasses

Imperial College & Corndel Data Analyst Programme

1

Why you should never join an unsecured wireless hotspot and other ways to lose your data shirt

Speaker: **Prof. Yves-Alexandro de Montjoye**

2

Game-changing technologies: What's hot and what's not?

Speaker: **Prof. Chris Tucci**

3

Hacking on the world stage

Speaker: **Prof. Deeph Chana**

4

Why my Hoover finds crumbs: The fundamental things to know about Artificial Intelligence and Machine Learning

Speaker: **Prof. Chris Tucci**

5

Sport, Politics and risky business

Speaker: **Pierre Dangauthier**

6

Humans & Machines – better together? The future of AI enhancing human abilities, ethics and the art of the possible

Speaker: **Aldo Fasial**

7

Artificial Intelligence on the frontline of the pandemic

Speaker: **Sarah Filippi**

8

Data in the fight against climate change

Speaker: **Sonali Parbhoo**

Firesides

Professional discussion with Gord Graylish, General Manager EMEA at Intel and Programme Director, AI & ML in Financial Services at Imperial

Speaker: **Gord Graylish**

Journey to General manager; the power of AI & ML in industry; future of tech industry

Professional discussion with Mike Seville, CDO of Dojo

Speaker: **Mike Seville**

Day in the life of a CDO; important aspects of data and data governance

1:1 Coaching

- Ongoing one-to-one coaching support with your Professional development expert
- One point of contact from start to finish
- Tailored delivery schedule to work around you
- Practical support dealing with data challenges
- Three-way progress reviews with your line manager



Nicki Tinson

Professional
Development
expert

15 years experience in business analytics with experience from Deutsche Bank, Vauxhall and the Greenhous Group



Edmund Ryan

Professional
Development
expert

14 years working with data for Arrow Global in the financial services industry



Minesh Patel

Professional
Development
expert

15 years working for global banks in a variety of senior roles, including risk, technology, strategy and security lending.

Engaging Workshops

- Introducing key topics
- Scheduled throughout the year
- Deep dive practical exercises
- Networking opportunities



Online Learning – Bite-sized, Flexible Learning

Corndel uses an online learning and assessment platform called Aptem. This allows Participants to remotely access their programme content and management information which shows their progress. Corndel's Professional Development Expert will use Aptem to monitor each Participant's progress and communicate directly with them to support them throughout the programme. Participants will upload their Continuing Professional Development tasks and assignments onto the system on a weekly basis.

Engaging, blended learning approach including;



Interactive learning platform



E-books



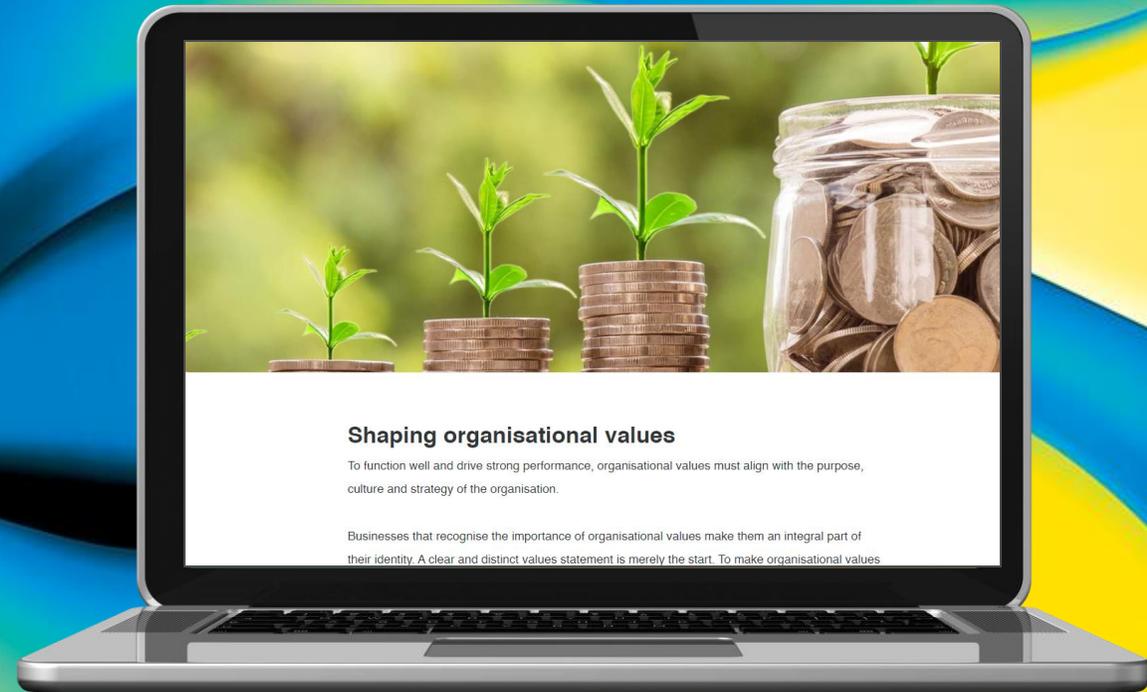
Video and Audio content



On demand access



Bite-sized activities, group workshops and tasks designed to fit around your role



End Point Assessment



**Portfolio of
Projects**



Final Project



**Professional
Discussion/Interview**

Assessments & Qualifications



Portfolio of Projects



**Imperial College Business School & Corndel
Data Analyst Diploma**



Final Project



**Imperial College Business School Executive
Education Alumni Status**



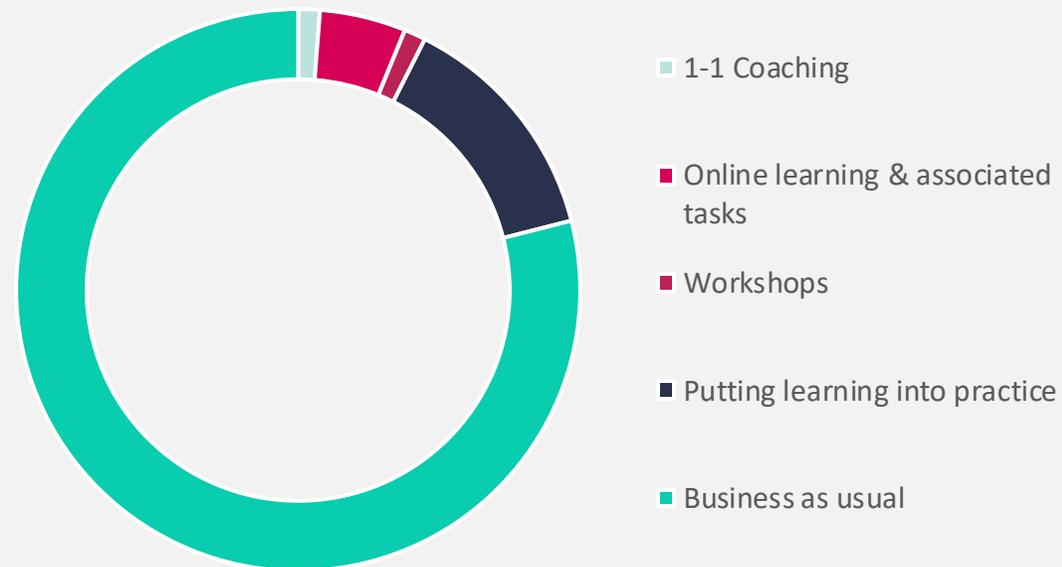
**Professional Discussion and
Interview**



**Data Analyst Level 4 Apprenticeship - Professional
Qualification accredited by Academy 4 Digital**

Time Commitment

Corndel works with each learner to develop a personalised learning plan. This takes into account prior learning, qualifications and experience so that we can help you to develop new skills.



If you work 30 hours or more a week, you will commit a minimum of 6 hours each week to your development made up of:

- ✓ One hour each month in one-to-one tuition with your Professional Development Expert
- ✓ Four hours per week doing online learning including practical exercises to build familiarity with industry-standard tools and analytical techniques
- ✓ One – two hours each week continuing your development in your role, reflecting on and evidencing your learning through
- ✓ Sixteen half days in group workshops learning new concepts and techniques, spread over the duration of the programme

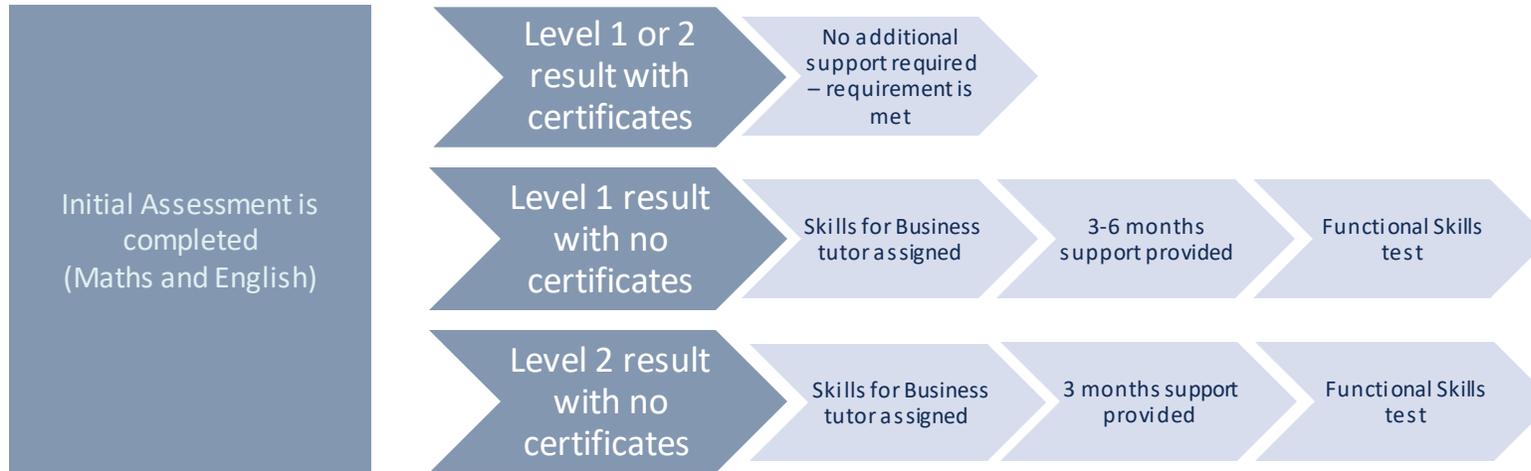
Eligibility and Suitability



For candidates to be levy funded they must fulfil the following criteria:

- They do not have a data qualification at the same or higher level as the apprenticeship they are nominated for;
- They spend at least 50% of their working time in England;
- They work more than 30 hours a week;
- They are a citizen of an EEA/EU country or the UK and have lived in either for the last three years; OR have permission to live and work in the UK if non-EEA/EU/UK.
- *All learners must provide proof (certificates) of English and Maths at GCSE level C and above or enroll on Skills for Business*

Skills For Business



Important: All certificates must be C grade or higher to be accepted

- All learners must provide proof (certificates) of English and Maths at GCSE level, A - C
- If they do not have their certificates, straight forward process to request new ones
- If this level was not obtained, they will be supported to achieve an equivalent qualification
- This is an additional time commitment, approximately 12 hours for English and 12 hours for Maths (dependent on their level and including examination time)

Learner Feedback and Example Projects



Council A

Built a monthly forecast of social care referrals based on several years of data. Explored which deprivation measures impact contacts across LSOAs and analysed the relationship between referrals and deprivation.



Council B:

Created Decision Trees, Logistic Regression and Random Forest models to predict if a care leaver is likely to be in Education, Employment or Training. Forecasting of Children Social Care Contacts



Council C:

Explored the relationship between Key Stage 2 results and Absence using linear regression. Explored the relationship between Exclusions and Socioeconomic Indicators using logistic regression.

“Coding was always a gap in my knowledge and I feel the programme has already opened up so many possibilities for improving processes which gives me more time for in-depth analysis work.

Learning SQL is a great example of this and has massively improved my understanding of the reports we create which means I'm more confident working on them.

Working towards a qualification which will sit alongside my years of experience will definitely help open future career opportunities for me too.”

Next Steps

- Now: Apply via the online hub
- Application Window Closes: 9th of October 2023
- Enrolment Commences: 17th October 2023
- Programme starts: 28th of November 2023

