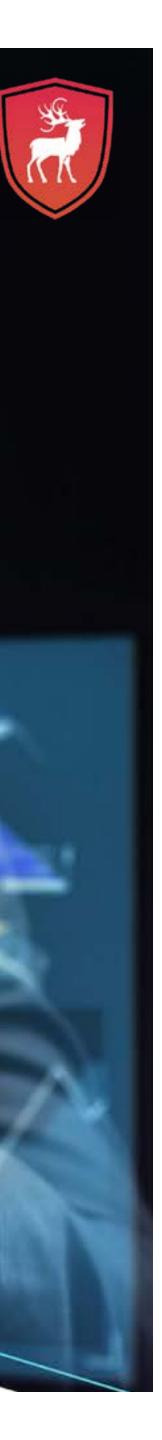
Intermediate Course in Data Science

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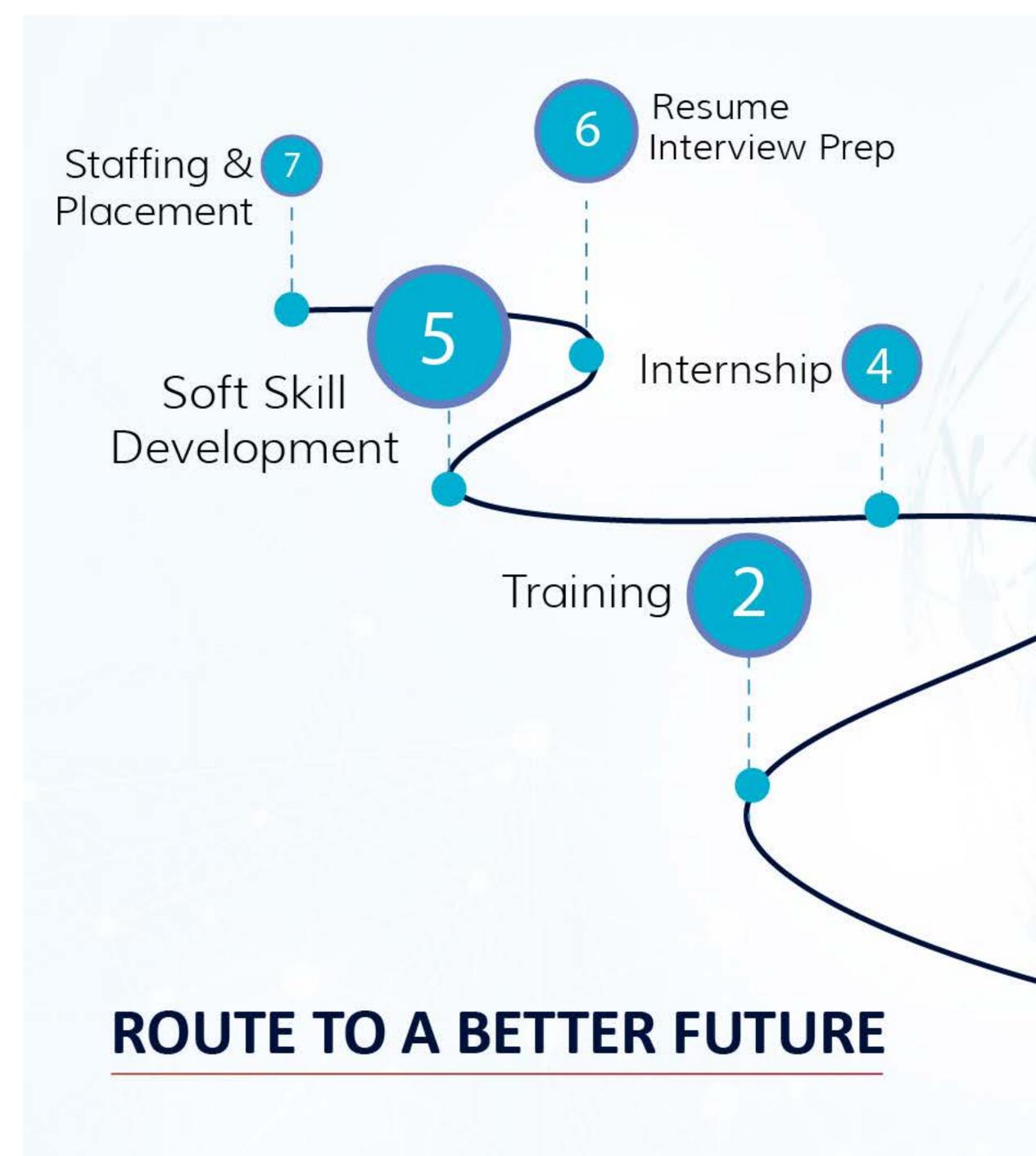
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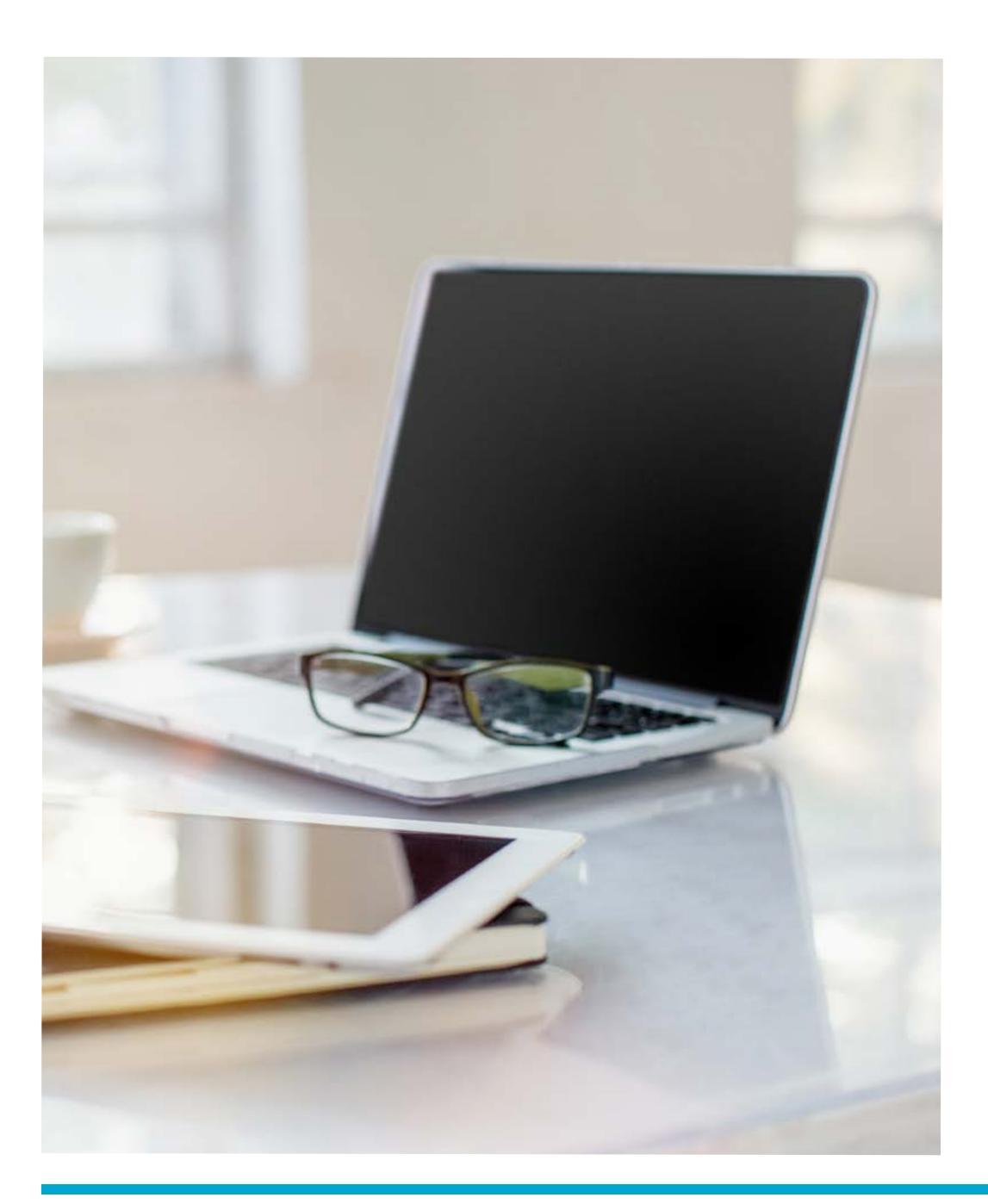


Lab Work & Real Time Project

3

Aspirational Test Aptitude Test Career Guidance







Program Overview

Our Intermediate Program in Data Science accelerates your career in Data Science. You will be offered with the best-in-class training and skills to be successful in this domain. Through this course, you will learn how to visualize and respond to new data, as well as develop innovative new technologies. The course equips you with Python, Tableau, MongoDB etc. You'll also deep dive into data interpretation and ML and AI

Program Features



Comprehensive learning experience



Private, group and corporate learning solutions



Career focused



Live project work



Downloadable e-Book



INTERMEDIATE



Customized learning oferings for busy exe-utives and corporate groups



Experienced instructors with several years of hands-on work and training experience

Resume preparation & mock interviews



Job assistance



Immigration assistance including application processing to make your







Delivery Mode

Online training

Prerequisites

Candidates with prior IT knowledge/ IT work experience

Candidates with a relevant bachelor's degree with core subjects including computer programming, language proficiency

Knowledge of operation and management of server OS like Linux and Windows server (Certified Linux Administrator, MCSA are preferred)

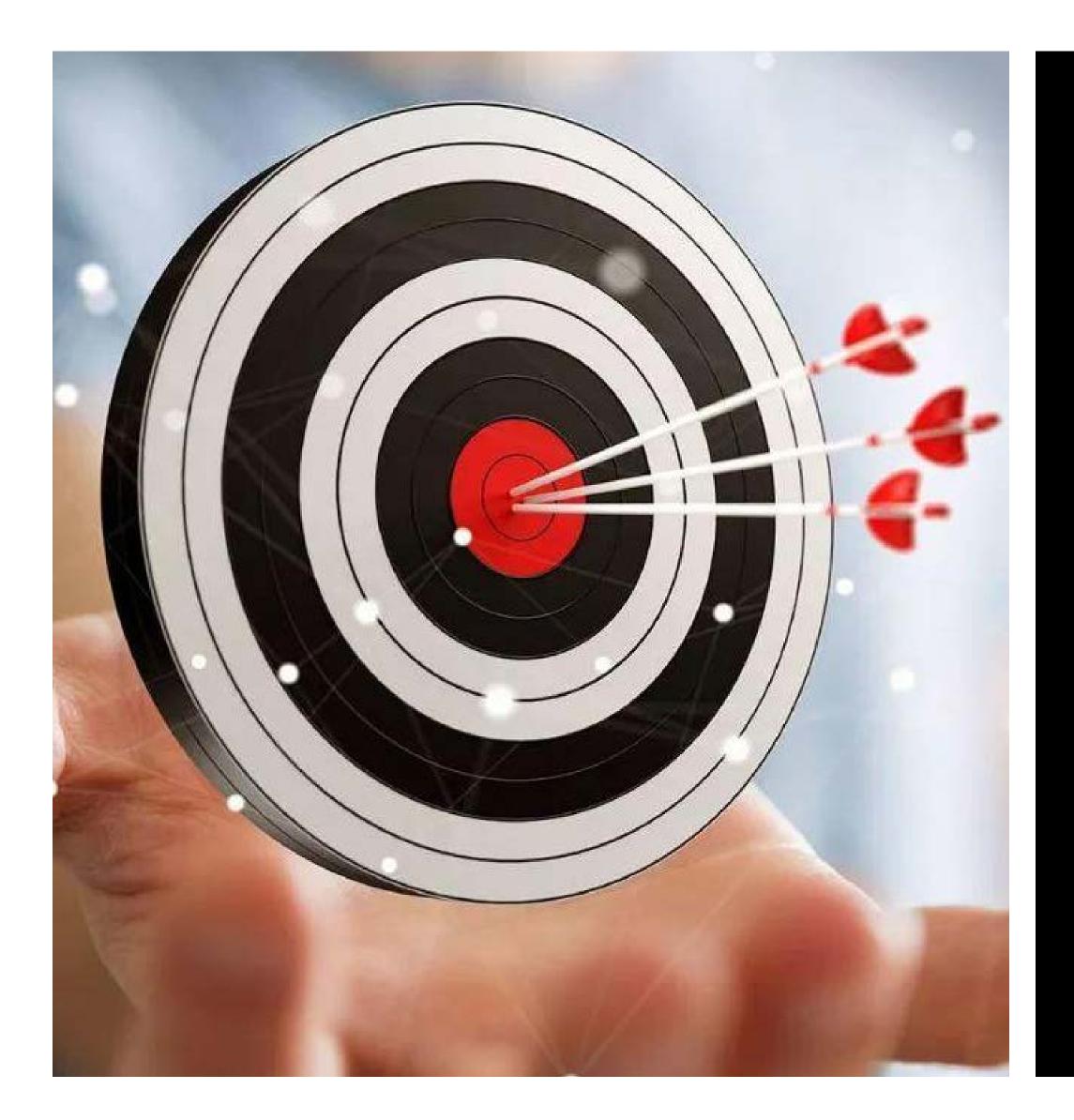
Basic Networking Certificate (Network A+ Certification)

Candidates with knowledge of Database management or ETL

Web based pre - admission test which consists of course-based and competitive assessments. Candidate has to score at least 60% in the test to be eligible to pursue the course



Target Audience







Freshers with Computer Science background interested in Data Science



Professionals looking for a career transition



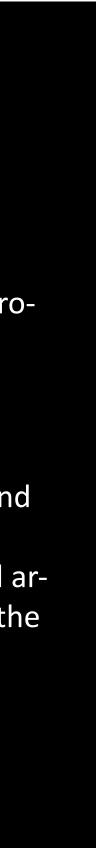
Supply chain and marketing managers



Business analysts and banking professionals

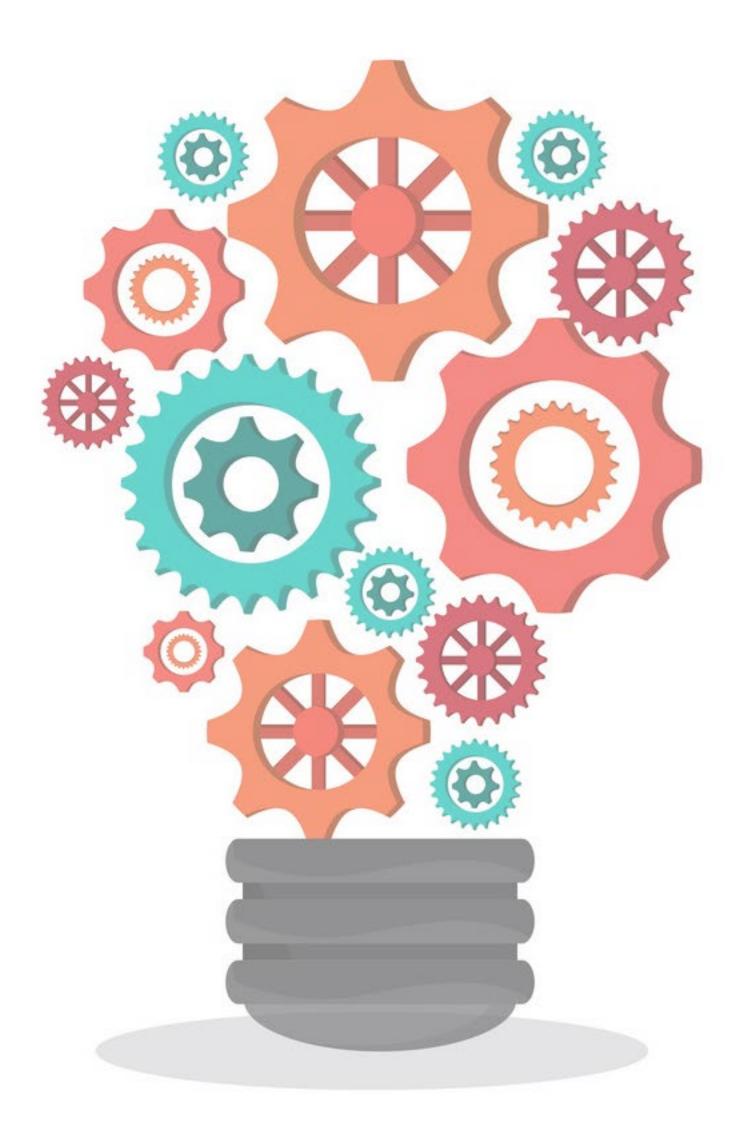


Candidates having good command in any programming language take up this course, as this cloud architect course will help you run the projects and make





Key Learning Outcomes





Python Programming Language



Machine Learning and Deep Learning Algorithms



Graph QL







Statistics for Data Science

SQL for Data Science





Tableau

MongoDB



Certification Details

On completion of the course, you would be awarded with a certificate of completion from us. This certificate would make you eligible to pursue industrial certification. You'll get the necessary guidance and support from our subject matter expertsto obtain Industrial Certification. We guide our candidates for pursuing the mentioned Industry Standard Certifications.

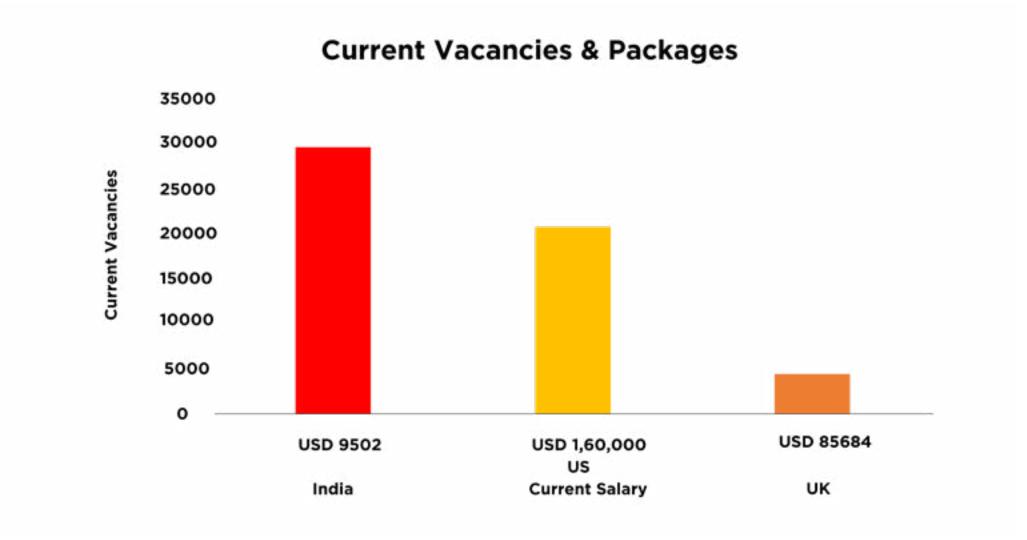
IBM Data Science Professional Tensor flow Developer Google Professional Data Engineer

Benefits

Data Science is a buzzword in the technology world right now and for good reason, it represents a major step forward in how computers can learn. The need for Data Scientists is high in demand and this surge is due to evolving technology and generation of huge amounts of Big Data.

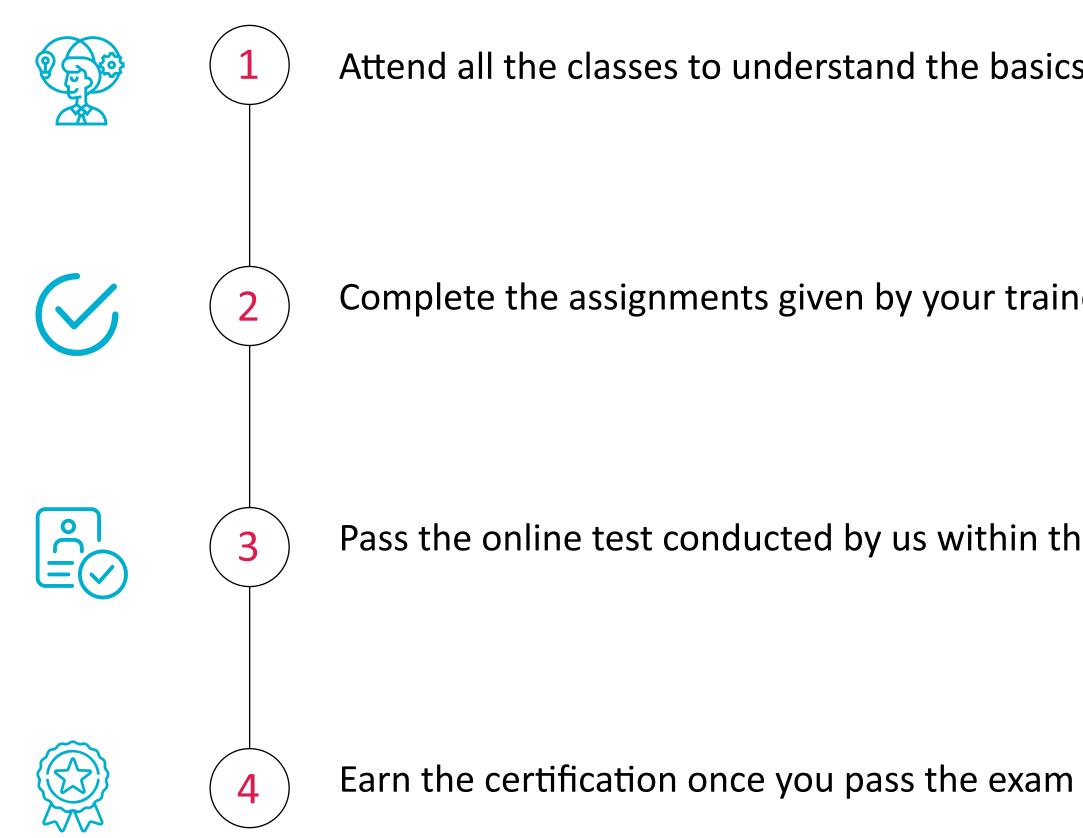


Data Scientists make an average of \$116,100 per year. In a recent survey conducted by Analytics Insight, by 2021, there will be 3,037,809 new job openings in data science, worldwide.





Steps Involved in The Certification





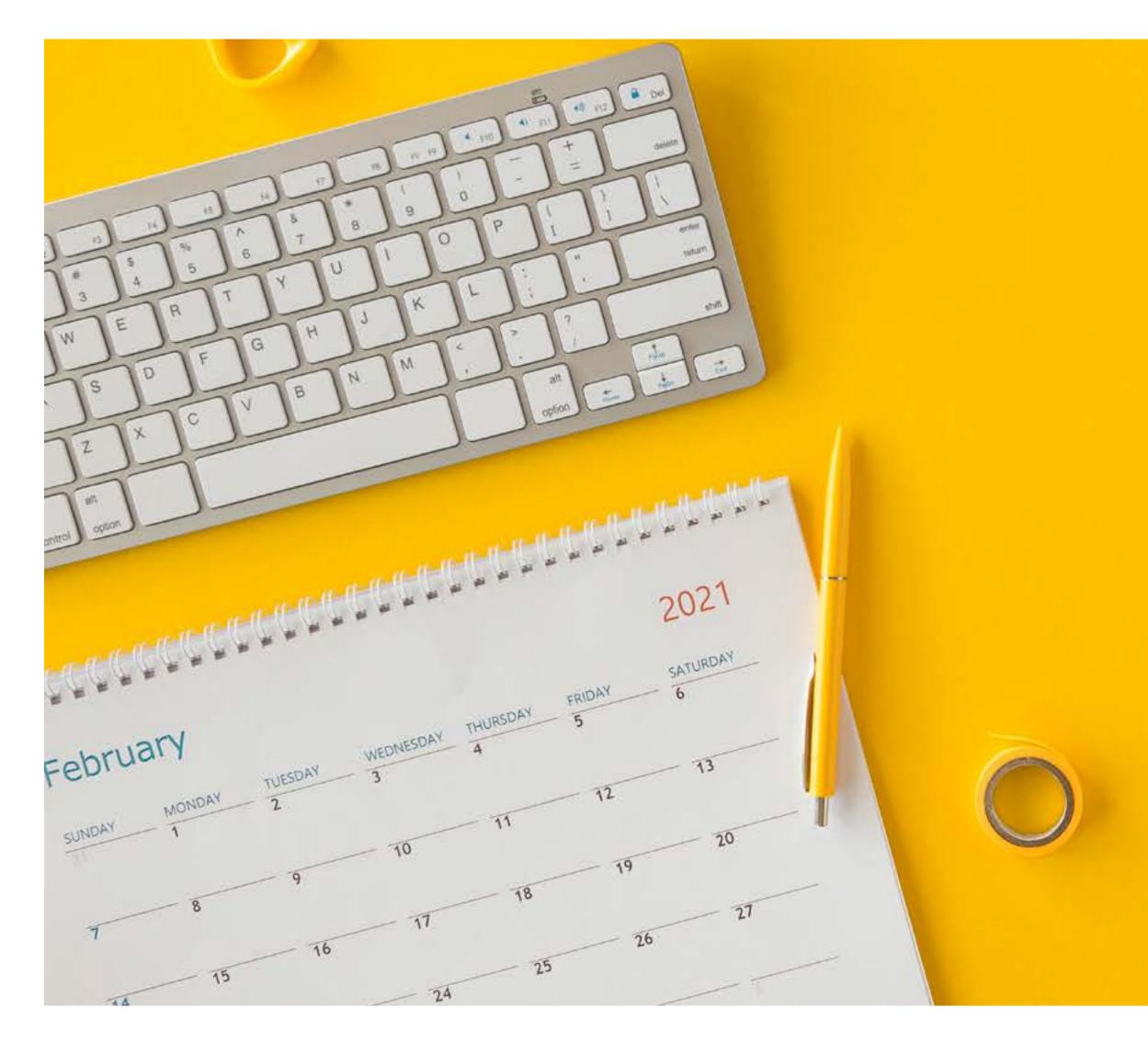


Attend all the classes to understand the basics clearly

Complete the assignments given by your trainer regularly

Pass the online test conducted by us within the set timeframe







Course duration

6 months training program with 3 months of theoretical & practical training and 3 months of internship.

At the end of this training program, you'd get hands-on experience on various tools. All students are eligible to pursue the internship program.

Course Completion Criteria

Minimum 85% percent attendance in the course

and

Minimum 65% score in the final course-end assessment (To be eligible for the final course-end assessment, the candidate should clear all the module-wise assessments with 65%)



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All students must adhere to the following criteria for successful completion of the **Academy's courses**





Quizzes



Quizzes will test the student's attentiveness and understanding of the course's



Each student will complete all the assigned quizzes for the course



The quizzes will be based on the material presented in the lectures and the online modules.

Assignments

- The assignments will help students review and better understand the course material introduced in the lectures and modules.



Students must complete all assignments assigned for the course



Assignments will be graded at the discretion of the instructor

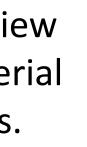




Students must earn a minimum of $\langle \swarrow \rangle$ 65% to pass the quizzes



If the minimum score of 65% is not achieved, the student must retake the quiz until that score is reached



Students must earn a minimum $\langle \checkmark \rangle$ of 65% to pass the assignment

 $\langle \checkmark \rangle$

If the minimum score of 65% is not achieved, the student must resubmit



After completion of each module, there will be a Theoretical Quiz and Practical Assignment.

Attendance



Students should earn minimum 85% percent attendance in the course

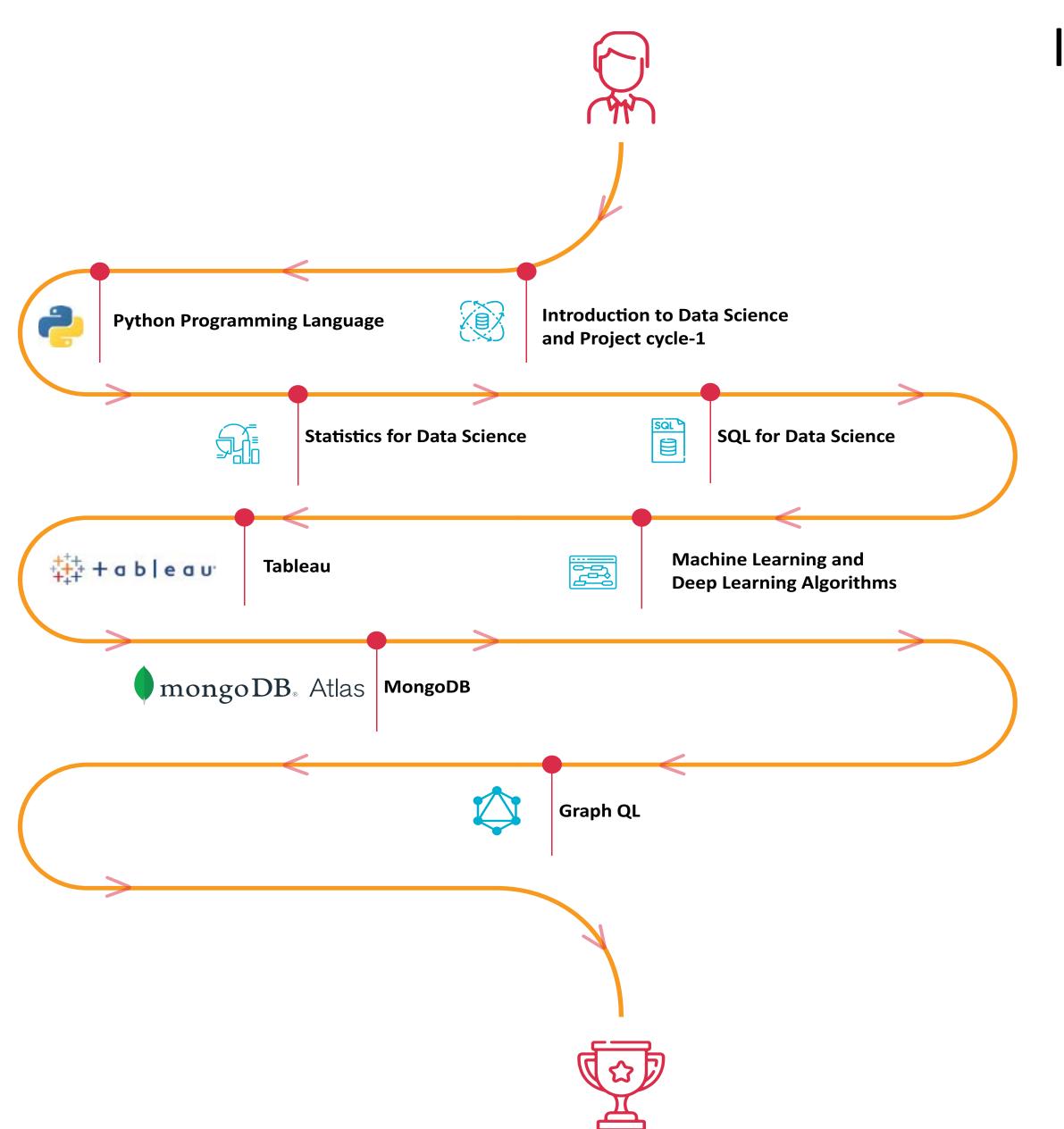
Final course-end assessment



Students should earn minimum 65% score in the final course-end Assessment

(To be eligible for the final course-end assessment, the candidate should clear all the module-wise assessments with 65%)





INTERMEDIATE



Course Curriculum

Module 1

Introduction to Data Science and Project cycle-1 (Duration: 3 hours)

Hands On



How to Obtain data



How to Scrub Data



How to Explore Data

Total Duration for Introduction – 3 hours (2 days approximately)



Python Programming Language (Duration: 15 hours)



Numbers, Strings, List, Tuple, Dictionary, Set, File operation



Conditional Statement



Loop, range, List comprehension



def function, Lambda





Python In Build Functions-Map, Reduce, Enumerate, reduce, filter, zip, complex, any,



args and kwargs



Try-Except-Finally



DATETIME, Regular Expression









Python Development Environment Setup



Variables, Datatypes & Built-in functions

Total Duration for Python – 15 hours (10 days approximately)





Object Oriented Programming



Conditional Statement & Loops



Statistics for Data Science (Duration: 15 hours)



Data types and its measures



Random Variables and its applications



Introduction to Probability with examples



Normality tests for dataset



Basic Graph Representations-Bar Chart, Histogram, Box Plot, Scatterplot





Building Normal Q-Q Plot and its Interpretation



Central Limit Theorem for sampling variations



Confidence Interval — Computation and analysis



Formulating a hypothesis statement (NULL and ALTERNATE)



Type-I and Type-II Errors, P -Value, Significance



Hands On:

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https://k21academy.com/datascience/hands-on-data-scienceand-machine-learning-labs-withpython/#Lab_1_Data_Pre_Processing



https://k21academy.com/datascience/hands-on-data-scienceand-machine-learning-labs-withpython/#Lab_2_Missing_value

Total Duration for Statistics – 15 hours (10 days approximately)





https://k21academy.com/datascience/ hands-on-data-science-and-machinelearning-labs-with-python/#Lab_3_Feature_Engineering_Encoding_And_Scaling_Of_Data



https://k21academy.com/datascience/ hands-on-data-science-and-machinelearning-labs-with-python/#Lab_4_Outlier_Detection_And_Analysis



SQL for Data Science (Duration: 15 hours)



Introduction: DDL, DML, DCL, DRL



Create, insert, constraints



ALTER, DELETE, UPDATE



select, where, conditional, group by, order by

Hands On



Creating SQL

Total Duration for SQL – 15 hours (10 days approximately)





Format- upper, lower, concat, in, like



Aggregate Functions



JOIN: Inner Join, outer join (left join, Right Join)



Union Except, correlated queries views





Machine Learning and Deep Learning Algorithms (Duration: 15 hours)

(This includes packages like pandas, numpy, matplotlib, seaborn, sklearn, nitk, wordcloud, stopwords, keras, tensorflow, tsa etc.)



Simple linear Regression



Multiple Linear Regression



Polynomial Linear Regression



Logistic Regression



KNN



Decision Tree





Ensemble algorithms: Random Forest, Bagging and Boosting



Regularization method: L1 and L2 Regularization



Support Vector Machine



Naive Bayes



Natural Language Processing



Pytesseract, Genism, polarity package





Clustering algorithm: K means and **Hierarchical Clustering**



Timeseries algorithm



Web scrapping using beautiful soup



Deep Learning Algorithms: Artificial Neural Network



Convolution Neural Network



Case study 1 & 2

Hands On



Case study 1

Total Duration for Machine Learning & Deep Learning Algorithm – 15 hours (10 days)







Making Product Recommendations



Customer Segmentation



Image & Video Recognition





Tableau (Duration: 10 hours)



Tableau Products and Usage



Basic Charts on Tableau



Connecting with Multiple Sheets and Data Sources

Hands On



https://www.tableau. com/learn/tutorials/ on-demand/tableau-interface?playlist=230069



Mapping

Total Duration for Tableau – 10 hours (6 days approximately)





Tableau Filters and Visualization Interactivity



Maps and Images in Tableau



Advanced Charts in Tableau and Analytical Techniques



https://www.tableau. com/learn/tutorials/ on-demand/relationships?playlist=230071





MongoDB (Duration: 24 hours)



What is MongoDB?



Importing, Exporting, and Querying Data



Creating and Manipulating Documents



Indexing and Aggregation Pipeline



Next Steps



Concepts of RDBMS and MongoDB







Code and Queries



The Life Cycle of an Application and Additional Resources



Introduction & Setup



The Mongod



Replication









Database User Authentication



Role-Based Access Control

Hands-On



Install and Start MongoDB

Total Duration for MongoDB – 24 hours (16days approximately)



Internal Authentication



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Tying It All Together





Graph QL (Duration: 3 hours)



Graph QL is the better REST



Core Concepts



https://www.howtographql.com/basics/2-core-concepts/?autoplay%22%20 %EF%BF%BDHYPER-LINK%20%22https://www. howtographql.com/basics/3-big-picture/

Hands On



Install and Start Graph QL

Total Duration for Graph QL – 3 hours (2 days approximately)

There will be a 3 hours of practical lab work depending on the subject on a daily basis.









More Graph QL Concepts



Tooling and Ecosystem









Tools Covered

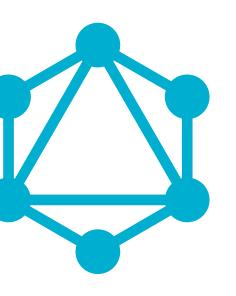


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TensorFlow





Staffing and Placement

After the internship is completed, you would be provided with effective placement assistance by our experienced staffing professionals to make you land a job in one of the top MNCs in India. Besides, based on your performance you'll have the opportunity to get placed at any of the Cyber Chasse's affiliated companies that have global presence.

The candidates will be supported in the following ways:



Resume modification assistance



Use of power points for core skills enhancement



Maintaining the format to comply the ATS systems used by employers, to ensure professionalism

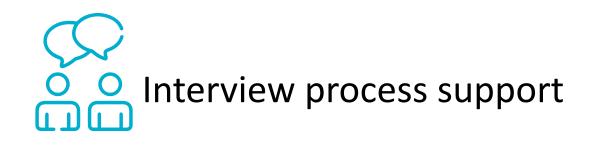


Putting the details of the internship with Cyber Chasse











Use of power points for core skills enhance-



Conducting mock calls



Assisting with study materials for more exposure



Submitting resumes to diverse organizations



Arranging for interviews



Briefing about requirements and assisting in interview preparation



Briefing about the company before the interview





Cyber Chasse's top clients:



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Deloitte.



Finally, follow-ups to ensure closure

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Immigration

We also offer immigration services to all candidates looking for an internship abroad.



INTERMEDIATE



Training Employment Pass for internship in



Mission visa for internship in Dubai

Work permit for internship in Canada

Cyber Chasse Learning Academy is a leading virtual training platform that focuses on the cuttingedge technology tools.

We aid aspiring candidates learn and acquire knowledge of technologies that transform the world. Our course is carefully designed to let you stay ahead of the curve in the job market. All our experienced trainers impart excellent training in a fun and engaging way. Besides, we offer placement assistance to help candidates land their dream job.









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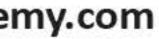
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