



GreyAtom's Data Science Masters On-campus Program is an intensive programs with a 300+ hours curriculum designed around 6 data projects on real datasets.

This program will help you **learn advanced data science** where you'll be interacting with mentors, doing projects with your peers, and rubbing shoulders with the gurus of this domain.

At GreyAtom we are building a true blended learning experience where core learning happens on our **AI-based learning platform- Glabs** & assisted by "Mentors", "Peers" & "Subject Matter Experts".

"We are here to ensure that your learning experience at GreyAtom is exceptional."

Shweta Doshi

Co-founder & Head of Academics at GreyAtom

TABLE OF CONTENTS

The obvious question

Why Data Science? — **04**

About us

Why GreyAtom? — 06

Our Ecosystem — 07

DSMP

80 In numbers _____ In-depth

Mentors

Student Placement Stories

Partners

Industry Partners

Community Partner _____ 22



"'When I look at the next set of technologies that we have to build in Salesforce, it's all data-science-based technology. We don't need more cloud. We don't need more mobile. We don't need more social. We need more data science."

- Marc Benioff , CEO of Salesforce

"We know that 20 to 30 years ago, you educated yourself and that carried you through for the rest of your life. That is not going to be true for the generation which is being born now. They have to learn continuously over their lives. We know that. So we have to transform how we do education. It is important to understand that tomorrow, whether Google is there or not, artificial intelligence is going to progress. Technology has this nature. It is going to evolve,"

- Sundar Pichai, CEO of Google LLC



GreyAtom is an education technology company that conducts Bootcamp style immersive learning program for Applied Sciences - currently, focusing on Data Sciences. At the heart of student learning is GreyAtom's online learning platform that ensures gaining practical knowledge while learning.

The programs will enable a learner to apply problem-solving and creative thinking to real-world data sets, gaining experience across the entire data science stack. You will use your new skills to build projects while learning new technologies on the fly.

Data Science Masters Program will help you get hands-on with Python for Data Science, summarize data for analysis, solve problems, implement, evaluate and productionize solutions to data science problems by building appropriate machine learning models and algorithms.

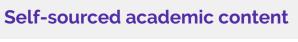


In-house Adaptive Learning Platform

Our Platform delivers an unparalleled 360-degree view of the curriculum, including Integrations with GitHub, Jupyter, AWS, Medium blogs. Complete content curriculum, and projects and building an online profile with every problem statement and challenges you solve. Leader-boards to test your overall competitiveness and readiness, based on all activities, interactions, challenges, quizzes, and projects, etc. in one repository, accessible from anywhere to make learning a seamless and effective.







Get the most out of the up-to-date curriculum designed by leading in-house academics team and industry professionals having expertise in practicing Data Science using real tools and workflows used by experts. Work on real industry data-sets, problems and live data sets to build and release real products.

Globally developed and optimized ecosystem

A co-learning ecosystem of Aspirants, Academia and Industry. Access to learning material by experts, videos of industrial panel discussions, and much more under one roof on the go. Learning outcomes optimized to not only meet industry standards but to also give you hands-on learning to showcase demonstrated skills with Peer-to-peer collaboration. Real-time customized feedback on overall competency development.





Industry Based Curriculum

- Real Datasets > Real Industry Problems > Expedited Learning.
- Hackathons on industry problem statements to build and showcase skills.
- Building models that are relevant to the industry.

Social Profile Engineering

- Integration with GitHub, AWS, Medium Blogs, and more.
- Demonstrate skills and improve your chances of getting hired.
- Improve and optimize your digital footprint.



Qualitative performance assessment

- Competency across various modules.
- Comparing performance to that of industry benchmarks.
- Personalized learning.

Immersive learning

- Access to learning material, videos of panel discussions, and much more.
- Learning outcomes optimized to meet industry standards.
- Peer-to-peer collaboration.
- Hands-on learning.
- Customized feedback and real-time competency development.

Become Industry Ready

- Ensures implementation of best practices like Test Driven Development and Coding Standard.
- Increased Industry Readiness.
- Real-time profile building.



DATA SCIENCE MASTERS PROGRAM

Our Flagship classroom program leverages the power of immersive learning to give you an in-depth understanding of ML

8 MONTHS 40
LEARNERS
PER BATCH

204
CLASSROOM
HOURS

PROJECTS & HACKATHONS

300+
DIY
ASSIGNMENTS



Puneet Jain
Data Scientist
at Collinson Group



Arunabh Majumdar Lead Data Scientist at Scalpel Ltd.



Manas Ranjan Kar
Associate Vice President
- Data Science & NLP at
Episource LLC





Parag Pansare
AWS Cloud Architect at
Accenture



Hardik Udeshi
Senior Data Scientist at
Vistaar Technologies



- 1. PYTHON DATA SCIENCE TOOLKIT
- 2. FOUNDATIONAL ML
- 3. SUPERVISED TECHNIQUES
- 4. MORE SUPERVISED & UNSUPERVISED ML TECHNIQUES
- 5. WORKING WITH TEXT DATA
- **6. CAREER SERVICES**
- 7. DEPLOYMENT OF ML MODEL
- **8. CAPSTONE PROJECT**





PYTHON DATA SCIENCE TOOLKIT

- 1. Getting Started with Python
- 2. Handling Program Flow in Python
- 3. Manipulating Data using NumPy
- 4. Data Wrangling with Pandas
- 5. Data Visualization with Matplotlib
- 6. Python Hackathon 1



SUPERVISED & UNSUPERVISED ML

- 1. Ensembling & Random Forest,
- 2. Gradient Boosting Machines
- 3. ML: Clustering/k-means
- 4. Challenges in ML
- 5. Support Vector Machines
- 6. Hackathon 2



DEPLOYMENT OF ML MODEL

- 1. Basics of ML deployments
- 2. Deployment in Cloud



FOUNDATIONS OF MACHINE LEARNING

- 1 Summarizing Data with Statistics
- 2. Introduction to Probability
- 3. Making inference from Data
- 4. Make your first prediction with **Linear Regression**
- 5. Regularization



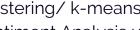
SUPERVISED MACHINE LEARNING

- 1. EDA and Data Pre-processing
- 2. Logistic Regression
- 3. Improving your model with Feature Selection
- 4. Decision Tree



TEXT ANALYTICS

- 1. Foundations of Text Analytics
- 2. Topic Modelling on Text
- 3. Clustering/k-means
- 4. Sentiment Analysis using NLP
- 5. Hackathon 3





CAPSTONE PROJECT

1. Capstone Project



CAREER SERVICES

- 1. Mock Interviews
- 2. Post Program 100% Placement Assistance
- 3. Hiring Network Access + Hiring Challenges
- 4. Resume Preparation
- 5. LinkedIn Presence Building
- 6. Interview Questions Access
- 7. Videos on Career Building



PYTHON DATA SCIENCE TOOLKIT

If **Data Science** is a skill, the language through which it is picked up is **Python**. Python is a very beginner-friendly and versatile language with great community support. Companies all over the world use python to develop data science solutions that make a business impact. And shortly, it will be your turn, once you become a data scientist! In this module, you'll learn python in an elaborate manner by performing tasks while learning the concept by solving real industry problems

- 1. Getting Started with Python
- 2. Handling Program Flow in Python
- 3. Manipulating Data using NumPy
- 4. Data Wrangling with Pandas
- 5. Data Visualization with Matplotlib
- 6. Python Hackathon 1

Learning Outcomes

Learn to manipulate large data sets. You will be analysing performance of different countries in Olympics from Wikipedia to get insightful information and present visualizations using Python.





FOUNDATIONAL MACHINE LEARNING

Every great building needs a solid foundation. While working towards a career in Data Science, it is a no-brainer that a strong foundation is needed. In this module, we will brush up the mathematical building blocks - probability, statistics, linear algebra as well as get introduced to the first ML algorithm - Linear Regression. The math is onboarded in a gentle manner with intuition taking the front seat over jargon.

- 1. Summarizing Data with Statistics
- 2. Introduction to Probability
- 3. Making inference from Data
- 4. Make your first prediction with Linear Regression
- 5. Regularization

Learning Outcomes

This will help you build a strong foundation on statistical concepts and perform analysis with real-world data sets using Python and its associated libraries.

You will be dealing with a retail bank dataset and predict the amount of deposit a customer will make in this year.



SUPERVISED TECHNIQUES

After the successful completion of this module, one is expected to be proficient in various predictive models and handling dirty data. With this module, you will become proficient in taking an unclean and real dataset and transform it into a clean dataset on which any predictive model could be applied to derive insights.

- 1. EDA and Data Pre-processing
- 2. Logistic Regression
- 3. Improving your model with Feature Selection
- 4. Decision Tree

Learning Outcomes

You are provided with a dataset of an online fashion retailer, use the data to predict the right fit of clothing for the customer.



MORE SUPERVISED, UNSUPERVISED ML TECHNIQUES

Boost your machine learning arsenal with more tools with advanced techniques like random forests and gradient boosting. Learn how to derive insights from even unlabelled data using unsupervised learning methods. These will take your machine learning mastery to the next level.

- 1. Ensembling & Random Forest,
- 2. Gradient Boosting Machines
- 3. Clustering/k-means
- 4. Challenges in ML
- 5. Support Vector Machines
- 6. Hackathon 2

Learning Outcomes

We will learn about more advanced algorithms for Supervised Learning and also learn about unsupervised learning.



WORKING WITH TEXT DATA

Test the waters of Text analytics with a deep dive into advanced techniques like topic modelling and sentiment analysis. At the end of this module, you will be able to apply any machine learning model on text data.

- 1. Foundations of Text Analytics
- 2. Topic Modelling on Text
- 3. Clustering/k-means
- 4. Sentiment Analysis using NLP
- 5. Hackathon 3

Learning Outcomes

In this module we will deviate from numerical data and learn how to deal with text data and apply traditional machine learning algorithms on the same

In this project, you would get access to Haptik's user chat conversations. You need to classify it into the right business vertical and assist the user with the requested services



CAREER SERVICES

Get started on your career development. Career development is a journey, and we offer one-on-one assistance to help you plan and achieve career success.

GreyAtom Career Services is not just a placement assistance service, we will help you throughout your GreyAtom journey to make your learning experience more enriching. With GA Career Services, we want to enable you to build your personal brand with the aids and resources that we send.

You can reach out to us at - careerservices@greyatom.com

Learning Outcomes

- 1. Mock Interviews
- 2. Post Program 100% Placement Assistance
- 3. Hiring Network Access + Hiring Challenges
- 4. Resume Preparation
- 5. LinkedIn Presence Building
- 6. Interview Questions Access
- 7. Videos on Career Building



DEPLOYMENT OF MACHINE LEARNING MODEL

Real world machine learning applications typically consist of many components in a data processing pipeline. We describe a framework for constructing these ML Pipelines. This framework can help us construct end-to-end workflows with a toolbox of off-the-shelf components which we have developed for text, image classification and a high-performance linear algebra library that we use for training models. This framework thus, helps us obtain state-of-the-art results in many machine learning tasks

- 1. Basics of ML deployments
- 2. Deployment in Cloud

Learning Outcomes

Deploy the data science models built in real time. Create your own data science products.



CAPSTONE PROJECT

A capstone project will allow the learners to create a usable/public data product and be used to test your data science learnt so far and showcase the same to potential employers. Projects are drawn from actual business use cases faced by companies.

Choose your Capstone from multiple business problems with real impact projects









Learning Outcomes

Our industry partner provides access to real data for you, which can then be mined for actionable insights in a time-bound industrial setting.

Testimonials Don't just take our word for it.



Manish Nemanna Kembral **Vice-President at HDFC**



The instructors were amazing and the active involvement of founders was helpful. What I loved the most were guest speaker sessions. We got a great insight to what the industry needs which helped us learn the correct skills.





Flexiloans ****

Love their program. Awesome learning platform and very helpful interview prep.



Vishnu Kamath **System Engineer at Infosys**





Wonderful Experience!!! Data Science can be mastered only by working on real-life data sets which Grevatom provides in its curriculum. Highly recommend to all the data science enthusiasts out there.



Bhavesh Bhatt Data Scientist at Flexiloans

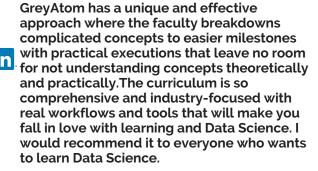




Multiple capstone projects at GreyAtom have helped me develop my skills on Big Data and all other elements of Data Science.











Mikhil Akki

May, 2017 Batch

Data Science Masters Program

Pre GreyatomAssistant Professor

Business Statistics



Data Scientist

Deloitte.





November, 2017 Batch

Data Science Masters Program

Pre Greyatom

Pre-Sales Manager



Data Scientist

epi

Post Greyatom



iii Nitika Goel

May, 2017 Batch

Data Science Masters Program

Pre Greyatom

IT Service Desk Engineer



Cognizant



Post Greyatom

Data Scientist





Chirag Pujari

December, 2017 Batch

Data Science Masters Program

Pre Greyatom

Data Analyst

Post Greyatom

Data Scientist









Darshin Doshi

July, 2017 Batch

Data Science Masters Program

Pre Greyatom

Programmer



Post Greyatom

Data Scientist





Industry partners

























Community partner

Our community partner DataGiri is the largest data science community in Mumbai. It is widely spread across the globe covering chapters in India, London, US and Australia. DataGiri is 100,000+ members strong global community covering a broad range of enthusiastic aspirants to accomplished industry practitioners. This helps us to keep ourselves updated with the latest trends in Data Science. We educate by curating and sharing the collective wisdom of our community at our events and through multi-media projects. We collaborate with both the data science community and the broader community and provide expert advice to new companies, projects, and non-profit organizations.

CHAPTERS
120
EVENTS
100,000+
MEMBERS

Srikanth Velamakanni, Cofounder and CEO of Fractal Analytics @ DataGiri

542 Attendees

Oct 28, 2017, 2.30 p.m. ISME, Mumbai

DataGiri with Morgan Stanley

Feb 24, 2018, 2:30 p.m. Morgan Stanley, Mumbai

396 Attendees

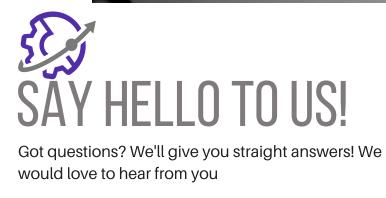
DATA GIRI

Data @UBER Tech Talk In Association With DataGiri

Mar 8, 2018 2:30 p.m. 91Springboard, Bengaluru

652 Attendees

Join us!





info@greyatom.com











