



DEEP LEARNING WITH NATURAL LANGUAGE PROCESSING

3-MONTH ONLINE

“Welcome to the world of GreyAtom

GreyAtom's **Deep Learning with Natural Language Processing** is a 3-month online program with live mentor intervention.

The Deep Learning with NLP Specialization will build upon your Data Science knowledge and turns you into a hands-on NLP practitioner with deep learning skills.

At GreyAtom we are building a true blended learning experience where core learning happens on our **AI-based learning platform** & 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

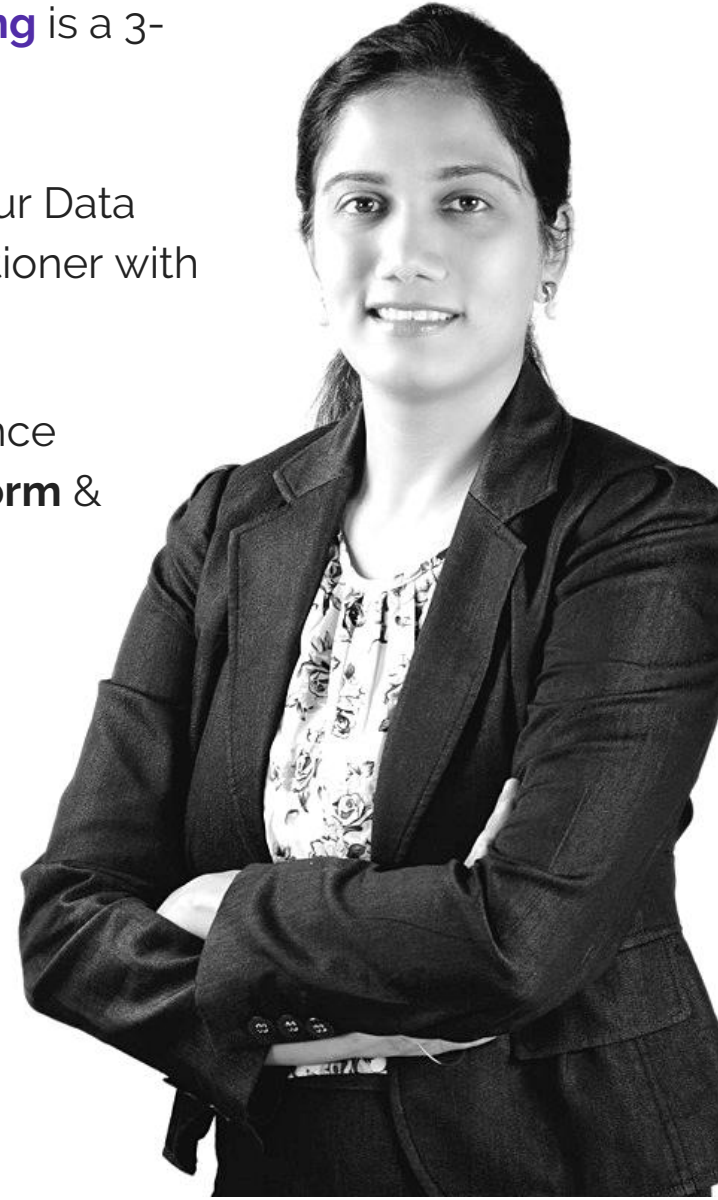


TABLE OF CONTENTS

The obvious question

Why Data Science? — 04

About us

Why GreyAtom? — 06

Our Ecosystem — 07

DSMP - Online

In numbers — 08

In-depth — 09

Mentors — 10

Modules — 11-18

Testimonials — 19

Student Placement
Stories — 20

Partners

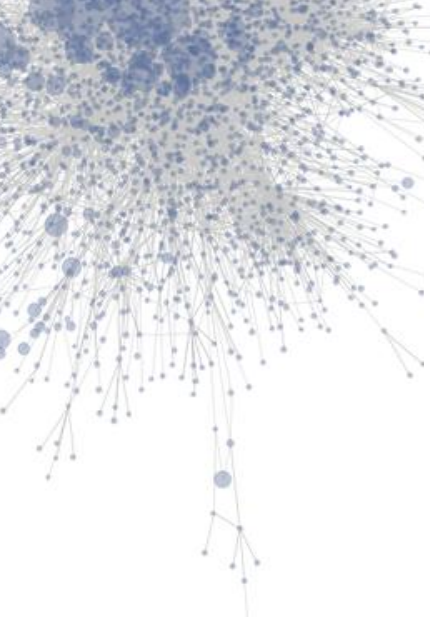
Industry Partners — 21

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



About us.

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.

Deep Learning with NLP: By the end of this specialization, you will be building on your existing data science knowledge by learning how to handle text. You will become proficient in the state-of-the-art techniques in deep learning and learn how to solve a variety of natural language processing use cases.

- **72 Practice Assignments**
- **72 Total Practice Hours**
- **43 Empanelled Instructors**

Why GreyAtom?

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.



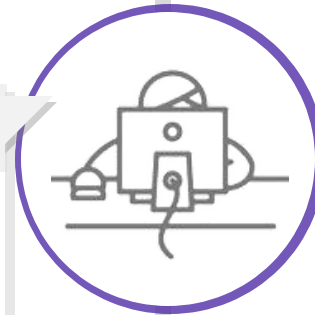
Globally developed and optimized ecosystem

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.



Self-sourced academic content

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.



Our Ecosystem

Industry Based Curriculum

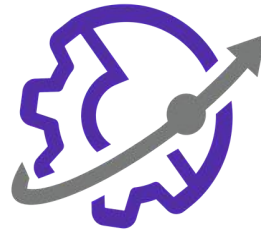
- Real Datasets > Real Industry Problems > Expedited Learning.
- Hackathons on industry problem statements to build and showcase skills.
- Building models that are relevant to the industry.

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.

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.



Become Industry Ready

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

Qualitative performance assessment

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



DEEP LEARNING WITH NLP

The Deep Learning with NLP Specialization will build upon your Data Science knowledge and turns you into a hands-on NLP practitioner with deep learning skills.

3

MONTHS

15

LEARNERS PER
GROUP

14

MENTOR-LED
SESSIONS

3

GUIDED
PROJECTS

72

DIY
ASSIGNMENTS



Avinash Ahuja

Machine Learning
Engineer at LinkedIn



Sidharth Ramachandran

Head of Data
Science at GfK



Manas Ranjan Kar

Associate Vice President
- Data Science & NLP at
Episource LLC

“Mentors 9 From the industry



Parag Pansare

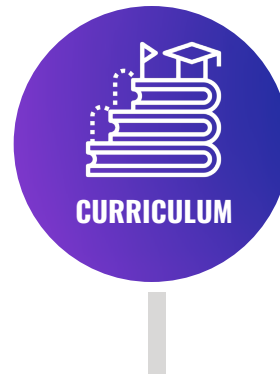
AWS Cloud Architect
at Accenture



Manish Kukreja

Data Scientist at Auckland
DHB

** Mentors will be assigned based on their availability



1. NLP BASICS

2. DEEP LEARNING BASICS

3. DEEP LEARNING FOR NLP



NLP

At a glance

01

NLP BASICS

- Week 1 - 3
1. Language Models and Information Theory, Parsing
 2. Word embeddings
 - 3. Industry Partner Project**

02

DEEP LEARNING BASICS

- Week 4 - 6
1. Intro to Deep Learning, Multi-Layer Perceptron (MLP)
 2. Deep Artificial Neural Network architecture
 3. Optimizing Deep Neural Networks

03

DEEP LEARNING FOR NLP

- Week 7 - 14
1. Deep Learning for Text
 2. Information Extraction and Named Entity Recognition
 3. Machine Translation and Alignment Models
 4. Document Summarization
 5. Noisy Text Analytics - Project
 6. Conversational AI (NLG)
 - 7. Industry Partner Project**

01.

NATURAL LANGUAGE PROCESSING BASICS

In this module, you will be introduced to basic building blocks of natural language processing. With this module, you will learn to solve use cases like a spell checker and text classification

1. Language Models and Information Theory, Parsing
2. Word embeddings
- 3. Industry Partner Project**



Project & Learning Outcomes

- Learn to work with unstructured text data
- Analyze text data to generate insights

**** Topics of the projects are subject to change depending on the then available industry data sets**

02.

DEEP LEARNING BASICS

In this module, you will learn the nuts and bolts of deep learning. These are important skills that will be used later for solving various NLP use cases.

1. Intro to Deep Learning, Multi-Layer Perceptron (MLP)
2. Deep Artificial Neural Network architecture
3. Optimizing Deep Neural Networks

Learning Outcomes

- Understand the basic of deep learning
- Implement a deep learning model using Keras
- Learn how to optimize a deep neural network

**** Topics of the projects are subject to change depending on the then available industry data sets**

DEEP LEARNING FOR NLP

In this module, you will be introduced to different use cases of NLP like document summarization, machine translation and so on. You will solve the use cases using traditional techniques as well as state of the art deep learning methods

1. Deep Learning for Text
2. Information Extraction and Named Entity Recognition
3. Machine Translation and Alignment Models
4. Document Summarization
5. Noisy Text Analytics - Project
6. Conversational AI (NLG)
- 7. Industry Partner Project**

Projects & Learning Outcomes

- Introduction to various NLP use cases
- Solve NLP use cases using deep learning
- Learn how to deal with noisy text data

**** Topics of the projects are subject to change depending on the then available industry data sets**

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.



Vishnu Kamath
System Engineer at Infosys



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



Nitika Goel
Data Scientist at Flexiloans



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



Darshin Doshi
Programmer at Cognizant



GreyAtom has a unique and effective approach where the faculty breakdowns complicated concepts to easier milestones with practical executions that leave no room for not understanding concepts theoretically and practically. The curriculum is so comprehensive and industry-focused with real workflows and tools that will make you fall in love with learning and Data Science. I would recommend it to everyone who wants to learn Data Science.



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.

“Students Placement Stories



[in](#) **Nitika Goel**

May, 2017 Batch
Data Science Masters Program

Pre Greyatom

IT Service Desk Engineer



Post Greyatom

Data Scientist



[in](#) **Nikhil Akki**

May, 2017 Batch
Data Science Masters Program

Pre Greyatom

Assistant Professor
Business Statistics



Post Greyatom

Data Scientist
Deloitte.



[in](#) **Chirag Pujari**

December, 2017 Batch
Data Science Masters Program

Pre Greyatom

Data Analyst



Post Greyatom

Data Scientist



[in](#) **Sagar Dawda**

November, 2017 Batch
Data Science Masters Program

Pre Greyatom

Pre-Sales Manager



Post Greyatom

Data Scientist



[in](#) **Darshin Doshi**

July, 2017 Batch
Data Science Masters Program

Pre Greyatom

Programmer



Post Greyatom

Data Scientist



“Industry partners

Deloitte.

 **BARCLAYS**

nielsen
.....

 **BNP PARIBAS**

YES BANK


Mahindra

bharti AXA
general insurance

epi
EPISOURCE

 **haptik**


TATA TECHNOLOGIES

fractal

CleverTap

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.

400
CHAPTERS

120
EVENTS

100,000+
MEMBERS

Srikanth Velamakanni, Co-founder and CEO of Fractal Analytics @ DataGiri

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

542
Attendees

DataGiri with Morgan Stanley

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

396
Attendees

Data @UBER Tech Talk In Association With DataGiri

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

652
Attendees



Join us!



SAY HELLO TO US!

Got questions? We'll give you straight answers! We would love to hear from you



info@greyatom.com

