



Global Trainee – Work from Home Internship Programme

Data Science – 4 Weeks

Data Science Internship Summary

- Learn about **Real-world Machine Learning** & the Challenges (look beyond just *fit and predict*).
- **Build Strong Fundamentals** - Derive Logistic Regression equation; Understand cross validation; **Why** is one hot encoding required? **Non-Parametric Models** (Trees) vs Parametric models; **How** non-linearity works? **What** are vanishing gradients? **Why** precision/recall is more important than just accuracies? and more.
- **Solve** unstructured text conundrums, tf-idf, word-vector embeddings, curse of dimensionality and more.
- **Solve** interesting problems using a variety of interesting structured and unstructured datasets
- In light of rapid advancements in **Auto-ML**, get motivated to learn, unlearn and re-learn. Change is the only constant!
- **Exclusive** interactive session with a **reputed Data Scientist** from the Industry.
- Guidance on **writing clean code**.
- Preparation for **Data Science interviews** with industry expert.
- Guidance on **Data Science in production**, the challenges and the solutions
- Handouts (Ureka Notes & Videos) helpful to solve the internship task for the week
- **Team Exercises and Collaborative Work** throughout the internship.
- **Soft skills** for Data Science professionals.

Desired Output for each week from each intern

- iPython Notebook with clean and refactored code with comments
- Visualization & stories around the data
- Validation technique used and model accuracy
- Short documentation on the model used and validation

Team Collaboration

Interns would be divided into small groups for non-mentored team exercises and collaborative work to be done each week.



Weekly Schedule

Week 1

Day 1 - Monday, June 1st, 2020 – 11:00am UAE | 12:30pm India time – 60 minutes

Welcome Session & Introductory Meeting

Day 2 - Tuesday, June 2nd, 2020 – 3:30pm UAE | 5:00pm India time – 60 minutes

Orientation and Deep Dive with the Mentor
Internship Task 1 - Data & Problem Statement

Day 3 – Saturday, June 6th, 2020 – 11:00am UAE | 12:30pm India time – 60 minutes

Non-mentored, Group Collaborative Work - discussion and presentation of the internship task within the group.

Submission Deadline Task 1 – 11:00pm, Saturday, June 6th, 2020

Week 2

Day 1 - Monday, June 8th, 2020 – 3:30pm UAE | 5:00pm – 60 minutes

Week 1 Recap & Task Feedback

Day 2 - Tuesday, June 9th, 2020 – 3:30pm UAE | 5:00pm India time – 60 minutes

Internship Task 2, Data and Problem Statement,
Handouts (Ureka Notes & Videos) helpful to solve the task for the week will be provided.

Day 3 – Saturday, June 13th, 2020 – 11:00am UAE | 12:30pm India time – 60 minutes

Non-mentored, Group Collaborative Work - discussion and presentation of the internship task within your group.

Submission Deadline Task 2 – 11:00pm, Saturday, June 13th, 2020



Week 3

Day 1 - Monday, June 15th, 2020 – 3:30pm UAE | 5:00pm – 60 minutes

Week 2 Recap & Task Feedback

Day 2 - Tuesday, June 16th, 2020 – 3:30pm UAE | 5:00pm India time – 60 minutes

Internship Task 3, Data and Problem Statement,
Handouts (Ureka Notes & Videos) helpful to solve the task for the week will be provided.

Day 3 – Friday, June 19th, 2020 – 3:00pm UAE | 4:30pm India time – 60 minutes

Interaction with a reputed Data Scientist from the Industry

Day 4 – Saturday, June 20th, 2020 – 11:00am UAE | 12:30pm India time – 60 minutes

Non-mentored, Group Collaborative Work - discussion and presentation of the internship task within your group.

Submission Deadline Task 3 – 11:00pm, Saturday, June 20th, 2020

Week 4

Day 1 - Monday, June 22nd, 2020 – 3:30pm UAE | 5:00pm – 60 minutes

Final report guidelines and discussion

Day 2 - Tuesday, June 23rd, 2020 – 3:30pm UAE | 5:00pm India time – 60 minutes

Final Soft Skills presentation

Day 3 – Saturday, June 27th, 2020 – 3:00pm UAE | 4:30pm India time – 90 minutes

Mentor session on latest industry trends in Data Science
Mentor session on Data Science & Engineering Interviews

Certificate Distribution (soft copy by email and hard copy by courier)

End of Programme