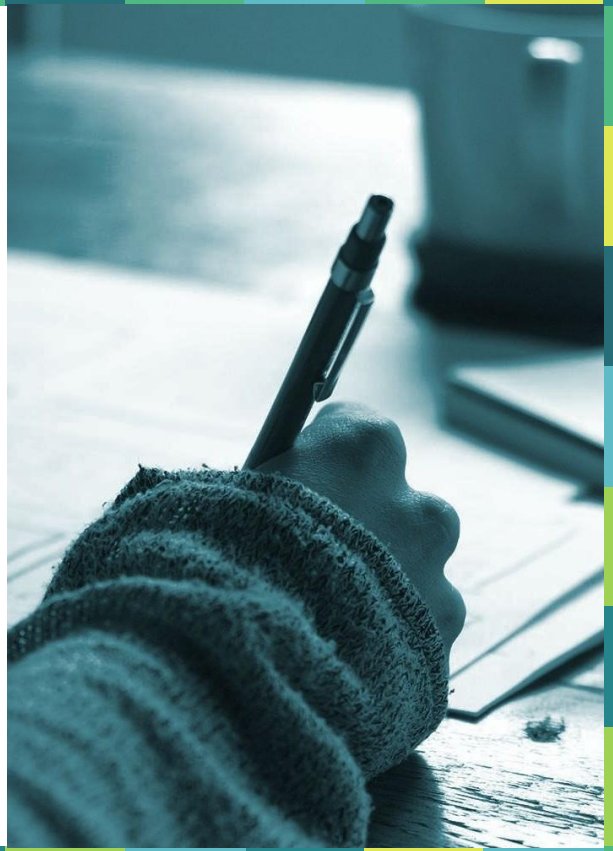
Graduate Rotational Internship Program

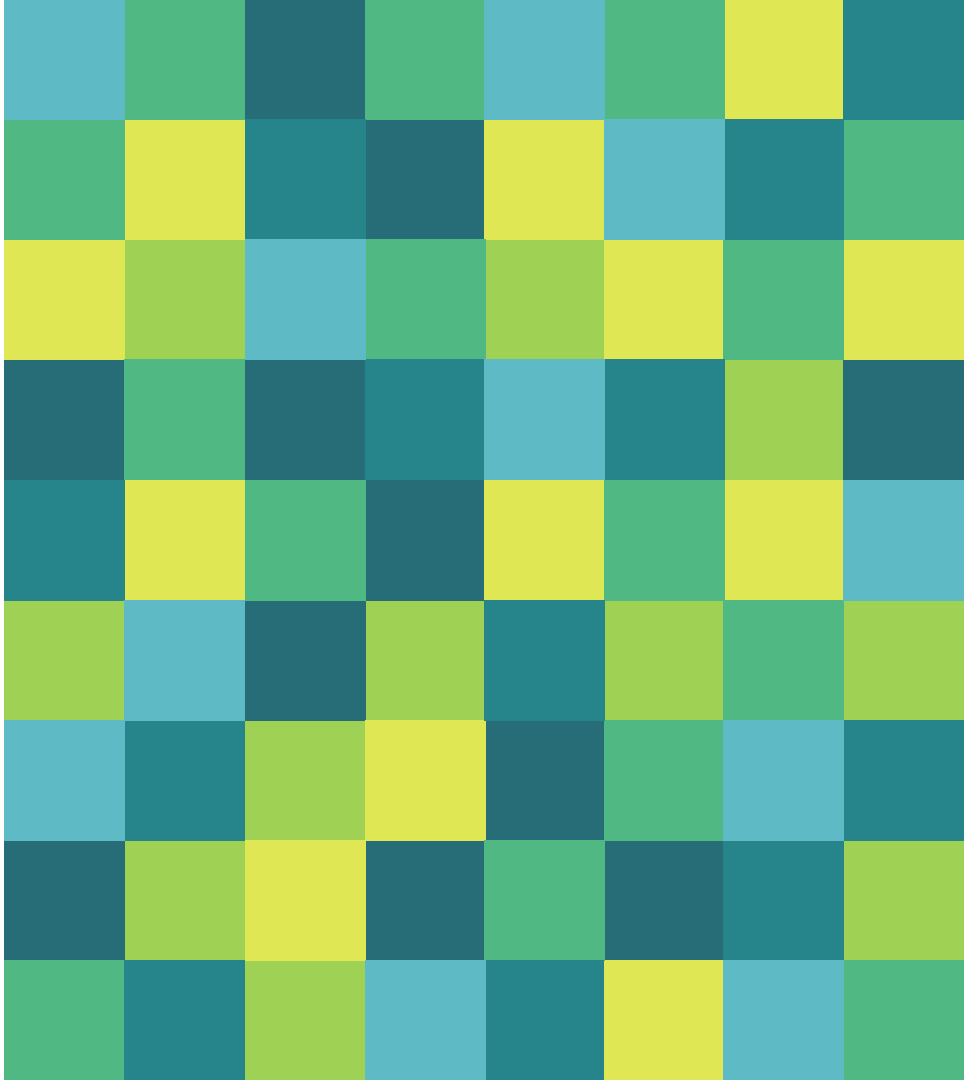
Technology

Tasks



Game Points

Game Points show which aspects are more valuable



How to gain points?

You get points for:

- Task Completion: No points for incomplete submissions (Tasks are still acceptable if submitted within the timeline).
- Timeliness: Respect deadlines. All submissions must be done before deadline for evaluation.
- Quality: Give your best in terms of quality. The quality of the tasks is always appreciated and considered.

Task List

Total number of tasks to be done: **2**
Choose at least **1 Tech Task** (you can choose more than one)

Task #1 - LinkedIn is a mandatory task

Task # 1

Task # 1- Improve your LinkedIn Profile

- Watch videos and read online articles to see the best practices about improving your LinkedIn Profile
- Read: Link 1, Link 2, Link 3
- Complete your LinkedIn Profile with all details from your resume, e.g. Objective, Education, Projects, Experience, etc..
- Add your professors, friends, seniors, industry leaders, etc. to your connections. Send invitation request to many. This will help you get job later on.
- Look at the connections of your existing network and add others who have reputed profile.
- Add and follow all the members on the TSF page Link 1,
- Join the TSF network and post your questions/ queries there. Link 2

- **Points: 50 (for awesome LinkedIn Profile)**
- **Bonus Points: 100 (for 500+ connections)**
- **Bonus Points: 200 (for 5000+ connections)**

Task # 2

Task# 2- To Explore Supervised Machine Learning

In this regression task we will predict the percentage of marks that a student is expected to score based upon the number of hours they studied. This is a simple linear regression task as it involves just two variables.

Data can be found at `http://bit.ly/w-data`

What will be predicted score if a student study for 9.25 hrs in a day?

Sample Solution :

https://drive.google.com/file/d/1koGHPElsHuXo9HPL4BQkZWRMJkOEHiv4/view

Task # 3

Task # 3- To Explore Unsupervised Machine Learning

From the given ‘Iris’ dataset, predict the optimum number of clusters and represent it visually.

Dataset :
https://drive.google.com/file/d/11Iq7YvbWZbt8VXjfm06brx66b10YiwK-/view?usp=sharing

Sample Solution :
https://drive.google.com/file/d/1Yjz8dzSbpAPwJdcVb20eFWniIDbs6ZH7/view?usp=sharing

Task # 4

Task # 4 - To Explore Decision Tree Algorithm

For the given ‘Iris’ dataset, create the Decision Tree classifier and visualize it graphically. The purpose is if we feed any new data to this classifier, it would be able to predict the right class accordingly.

Dataset : https://drive.google.com/file/d/11Iq7YvbWZbt8VXjfm06brx66b10YiwK-/view?usp=sharing

Sample Solution : https://drive.google.com/file/d/1mQguC2gku2-QFruj09a30N0TYDwCmPkq/view?usp=sharing

Task # 5

Task # 5- To explore Business Analytics

Perform ‘Exploratory Data Analysis’ on the provided dataset ‘SampleSuperstore’

You are the business owner of the retail firm and want to see how your company is performing. You are interested in finding out the weak areas where you can work to make more profit. What all business problems you can derive by looking into the data? You can choose any of the tool of your choice (Python/R/Tableau/PowerBI/Excel)

Dataset:

https://drive.google.com/file/d/1lV7is1B566UQPYzzY8R2ZmOritTW299S/view

Ask for help

- The purpose of the internship is to learn.
- Please feel free to ask for help, as and when you need.
- Ask your doubts related to tech in stackoverflow and share the link in the whatsapp group or with mentors.
- Give your best to the task you choose. Your effort will be visible in the results..
- Best of luck!!

Support the cause

Please Join Us and Spread the Word about what we are doing. With your help we can reach out to more students…

- FB: https://www.facebook.com/thesparksfoundation.info
- LinkedIn:https://www.linkedin.com/company/the-sparks-foundation/
- TSF Network:https://www.linkedin.com/groups/10379184