Guidelines

General Guidelines

- GS Quantify is a team event open to all students from the select colleges.
- There are 3 sections – Computer Science (CS), Machine Learning (ML) and Quantitative Aptitude (Quants). The sections are identified by appropriate prefixes. A team can submit solutions for one or more sections. Each section has one or two problem solving challenges and one documentation challenge.
- If a team can solve all three sections with high quality solutions, that's awesome! However, solving one section with high quality is preferred to solving all sections with lower quality.

Teams

- Each team can have 2 or 3 members.
- A team can consist of students from different departments and graduation years from the same college.
- Each participant can be a part of only one team.
- We encourage creative team names; however unprofessional names could lead to disqualification

Submissions

Each question in the section defines its own submission guidelines and timelines. Please adhere to the guidelines while submitting the solutions. Generally:

- The output must conform to the format specified in the problem statement
- A format checker has been designed to check the output for each problem. If your solution does not pass the format checker, it will not be evaluated.
- You may upload solutions multiple times, you will be ranked for the latest submission and a real-time per-problem leader board will display your position in comparison to other submissions. Please submit your complete solution each time you resubmit.
- For the final evaluation, only the final submission will be considered.
- For each section the problem solving challenges have to be submitted by 10pm on 8th October, the documentation challenge can be submitted until midnight of 8th October

Any plagiarism found in the model, output or code will lead to disqualification

Evaluation

- Each section carries 1000 marks
- For marks on the leaderboard, elapsed time for submission is the tie-breaker.
- Based on the online event, a selected list of teams will be called for on-site event where teams will give presentation for their solution.
- Finalists for on-site event will be decided based on both marks on the leaderboard as well as subjective evaluation of all the submitted documents and source code. Therefore, high rank on the leaderboard does not guarantee a finalist position for on-site event. It is an indicative rank for the online evaluation.
- Results will be treated as final and are not subject to re-evaluation based on participant request

FAQs

a) **Why should I participate in 2017 GS Quantify?**

GS Quantify is a unique platform in the FinTech industry to showcase innovative problem-solving skills which will challenge you in the areas of computer science, machine learning and quantitative finance. Add to this, there are some exciting prizes to be won.

b) **What are the participating colleges in 2017 GS Quantify?**

1. Motilal Nehru National Institute of Technology, Allahabad
2. National Institute of Technology, Trichy
3. National Institute of Technology, Warangal
4. National Institute of Technology, Suratkal
5. Indian Institute of Technology, Banaras Hindu University, Varanasi
6. Indian Institute of Technology, Bombay
7. Indian Institute of Technology, Kharagpur
8. Indian Institute of Technology, Kanpur
9. Indian Institute of Technology, Roorkee
10. Indian Institute of Technology, Guwahati

11. Indian Institute of Technology, Madras
12. Indian Institute of Technology, Delhi
13. Indian Institute of Technology, Indore
14. Indian Institute of Technology, Gandhinagar
15. Indian Institute of Technology, Hyderabad
16. Indian Institute of Technology, Patna
17. Indian Institute of Technology, Dhanbad
18. Indian Institute of Technology, Ropar
19. Indian Institute of Technology, Jodhpur
20. Indian Institute of Technology, Bhubaneswar
21. Indian Institute of Technology, Mandi
22. Birla Institute of Technology & Science, Pilani
23. Indian Statistical Institute, Calcutta
24. Indian Institute of Science, Bengaluru
25. International institute of Information Technology, Hyderabad

c) I am in a Dual Degree program, what Degree/College Year should I enter?

Please enter the highest degree and year of the primary program.

d) Which year students are eligible to participate in Quantify?

All students from the above mentioned set of colleges are eligible to participate.

e) Do you declare winners for each problem or cumulative of all problems?

There is emphasis on quality over quantity. If you are able to solve all three problems with high quality that's great, otherwise having high quality solution to at least one problem is important. Top teams per section as well as those best in cumulative score are invited to GS Campus to present their solutions.

f) Can we participate in teams?

Yes, you must participate in teams. The team size can be a minimum of 2 members and a maximum of 3 members.

g) What are the registration costs?

GS Quantify has no registration fee.

h) How do I register?

You can sign up for the contest here: https://www.hackerrank.com/gs-quantify-2017

i) What are the steps to register for 2017 GS Quantify?

- Fill in your individual information by entering details like College name, roll number, graduation year etc.
- After filling the above form, you will reach page 2 of the form. Herein, you need to fill a team name and invite your team members by putting in their HackerRank handle in the form.
- Confirm the "Declaration" Submit!
- Invitations will be sent to your team members on their emails.
- Your team members only need to click on the link in the email and then fill in their individual information. They will automatically get added to your team

j) What is my login id and password to access the contest?

You would need to login with your own HackerRank account credentials. When you make submissions in this contest, your submission will be considered and shown in the leaderboard as team submission.

k) Can team members be from different programs, branches and year of graduation?

As long as members are eligible to participate by above guidelines, the team members can be from different programs and branches.

l) How do I edit my team members?

You would need to go visit https://www.hackerrank.com/settings/teams . You should be able to make changes from here.

m) How do I submit my solutions?

Each problem specifies its own submission guidelines.

n) What should be the size of the final submissions?

The maximum upload limit is 5 MB per problem.

o) Will there be a live leaderboard for each of the questions?

Yes. There will be a combined leaderboard for all the sections.

p) What programming languages can I use?

As per the problem, if required to code in HackerRank platform, then you'll need to use any HackerRank supported language. Otherwise, feel free to use any language.

q) Will GS Quantify Team be around to answer my questions during the contest?

Please post on discussion forums for section related questions. Login related queries can be directed to gs-quantify-2017@hackerrank.com . The team will be around between 10 am and 10 pm on all contest days.

r) Whom do I contact for more information?

Please refer to FAQs, Guidelines, and Discussion Board per problem as first resort. Please note that the discussion boards are public and discussion of solutions will lead to disqualification.

For more information or clarifications on the questions, you can email your queries to us at gs-quantify-2017@hackerrank.com. Please mention your contact number so that we may call you back if required.

s) Do I get a job offer or get to interview for roles at Goldman Sachs if I participate or win?

No. GS Quantify is strictly a non-recruitment event, and bears no relation to anyone getting shortlisted for interviews or being offered a job at Goldman Sachs.

t) What questions were asked last year?

CS: Design a real time job scheduler whose state can be queried at any point of time. The scheduler receives job submissions and maintains a pool of CPUs to which jobs can be allocated.

ML: Compute the number of corporate bonds that would be bought or sold in the future given bond characteristics like coupon rate and the historical prices and volumes.

Quants: Modelling correlations between different financial products to price exotic financial contracts used in risk management.

Terms and Conditions

Goldman Sachs reserves the right to modify the event or cancel the event at any stage, without incurring any liability. This contest and participation in this contest is not an offer of employment or internship.

The participants warrant and certify that their submissions are original and do not infringe third party copyrights, patents or intellectual property rights.

Further, upon submission of solutions, all intellectual property rights and ideas generated during this contest and in the submissions shall vest in Goldman Sachs, and Goldman Sachs reserves the right to use the same in any manner, including for commercial purposes.