



Notice The IBM Hack Challenge

The #IBMHackChallenge is a technical hackathon, open to all the budding talented engineering students and 0-3 years IT professionals across India who are interested to participate and test their technical skills. Participate with your team to win some exciting prizes and stand a chance to get selected for an internship/employment opportunity.

Participation Criteria

- The participation is open only to students and IT professionals with 0-3 years of experience.
- All UG and PG engineering students of any branch or discipline can participate.
- There can be a **minimum of 2 members and maximum 4 members in a team**.
- **One team can work on any one problem** statement only.
- To work on more than one problem statement, register again with a different team name.
- All submissions should be made in public github repository and submit the link on the registration page.

Prize Details

- The shortlisted top teams will get a chance to present their solutions to Senior IBM Executives in person, however outstation teams can choose to make their presentations over a video call.
- There will be 4 winning teams in total.
- Prizes worth INR 40,000 will be given to each winning team.
- Selected individuals stand a chance to be evaluated for a potential internship or employment opportunity with IBM India[#].

Submission Guidelines and Evaluation Criteria

- The submission of all the collateral (document, code, presentation, etc.) should be done on www.github.com in a public github repository with appropriate details mentioned in the README file of the repository
- You should submit both idea and the coding together.
- A single github repository is to be used for uploading all the documents by a team and the github link needs to be submitted under 'My Programs Page'.
- To visit My Programs, click on the login icon at the top right corner and select My Programs from the list. Once you are on 'My Programs page', go to 'In Progress' tab and click on view/edit problem statement to upload the Github link.

REGISTRATION STARTS	28-Aug-18
REGISTRATION CLOSES BY END OF THE DAY	15-Sep-18
SUBMISSIONS WILL BE CLOSED BY END OF THE DAY	02-Oct-18
FINAL PRESENTATION (FACE TO FACE/VIDEO CALL)	25-Oct-18
ANNOUNCEMENT OF RESULTS	26-Oct-18

Problem Statement 1: Movie dataset analysis

The challenge is aimed at making use of machine learning and artificial intelligence in interpreting Movie dataset. The dataset made available to participants is on the scripts of the movies, trailers of the movies, Wikipedia data about the movies and images in the movies.

Problem Statement 2: Method-trace Analyser

The challenge is aimed at developing an application to assist developers in debugging code. Method tracing is one of the commonly used post-mortem diagnostic methods to identify problems. It consists of timestamp of entry and exit points for each method invocation. They may also contain stack-trace for each invocation. Depending upon the time for which trace data is collected, the file-size for these traces can be huge. Parsing them manually is a time-consuming and error-prone task.

Problem Statement 3: Help me with my mood

- Help me with my Mood with Social-media Health Analysis and Display Engine (SHADE).
- With the advances in technology about sentiment analysis and predictive analytics, it has opened many avenues for researchers and enterprises to understand human mental state better. The proposed challenge is to know the emotion/mood of a person, to help in eliminating any negative state of mind that might have adverse effect on his/her daily life.

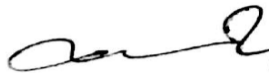
Problem Statement 4: Background extraction in image processing algorithm

- GPU off-loading using OpenMP for background extraction in image processing algorithm.
- There has been some quick progress made in Artificial intelligence and Deep learning which had been made available due to advancement and availability of GPU technology. This presents a challenge to the conventional programming model as the architecture is no longer homogeneous. Programmers may not want to deal with different ISA (Instruction Set Architecture) in a single application if they want to offload the compute intense part of the application to the GPU or other devices. A programming model that makes the underneath hardware transparent and provides a high level of usability is needed.

For more details/registration link >

<https://ibm.co/2NrpdRk>

All interested students can meet undersigned.



Prof. Bipin Kumar Rai
Department Incharge(IT)

Cc to:

1. Hon'ble Advisor Sir
2. Director Sir (e-mail)
3. Prof. (Dr.) S.S Chauhan, Deputy Director (e-mail)
4. Prof. (Dr.) Bhavesh Kumar Chauhan (e-mail)
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