



ABCD Behavior Data Hackathon

Introduction

We are thrilled to welcome you to the **1st Edition of the Behavior Data Hackathon**, brought to you by the Atlas of Behavior Change in Development (ABCD) in collaboration with the Centre for Social and Behavior Change (CSBC).

About the ABCD Behavior Data Hackathon

In our professional lives, we rarely get the chance to dive deeply into a problem without immediately seeking solutions. This hackathon provides that unique opportunity, rewarding participants for asking the right questions, uncovering nuanced insights, and identifying correlations that are often overlooked but crucial. Participants should select only one of the three problem statements enlisted in Annexure A)

The First Edition - Unpacking the National Family Health Survey (NFHS) Dataset

The problem statements in this hackathon pertain to National Family Health Survey (NFHS) data analysis. In the run-up to World Population Day, the **theme of this Hackathon revolves around gender, family planning, and health.**

Participants are invited to delve into this rich dataset to uncover meaningful insights and correlations that can drive impactful interventions and policies. By engaging with the NFHS data, you will be contributing to a deeper understanding of India's social and health dynamics, helping to shape better solutions for the future.

About the NFHS Dataset: The National Family Health Survey (NFHS) dataset is an invaluable resource for our hackathon due to its unique properties and comprehensive nature. This extensive survey provides a holistic picture of India's population, health, and nutrition across rural and urban areas in all states and union territories. Conducted in five rounds since the 1990s, the NFHS offers a longitudinal perspective, allowing for trend analysis over time. Its large sample size — covering over 610,000 households in the latest round — ensures statistical reliability and enables detailed sub-group analysis. The survey's diverse range of topics, from fertility and maternal health to women's empowerment and domestic violence, makes it a versatile tool for exploring complex social issues. What sets the NFHS apart is its adherence to standardized, internationally accepted methodologies, making it comparable to similar surveys worldwide. The data collection process, involving face-to-face interviews and biomarker tests, is rigorous and quality-controlled. Perhaps most importantly, the NFHS data is publicly accessible. This combination of comprehensive coverage, methodological rigor, and accessibility makes the NFHS an ideal dataset for our hackathon, providing participants with a robust foundation for developing data-driven insights and solutions to address pressing social and health challenges in India.

Access NFHS(5) Dataset - [Here](#)

Who Can Participate?

We invite participation from a diverse array of professionals and enthusiasts, including data scientists, data analysts, researchers, Statisticians, behavioral experts, consultants, academics and students with a keen interest in data and behavioral science.

This hackathon offers a unique opportunity to enhance data interpretation and problem-solving skills. By participating, you will contribute to groundbreaking work in the social sector and gain valuable experience and insights from leading experts in the field. **We accept individual as well as team submissions (with at most 3 members)**

Timeline

Jul 1, 2024 : Problem Statement Launch

July 7, 2024: Last date for submission of doubts

July 10, 2024: Release of FAQs

Jul 15, 2024: Submission deadline (11.59 PM)

Jul 20, 2024: Announcement of the Finalists

Jul 30, 2024: Final Round Presentation

Guidelines

- **Team Composition:** Each team should consist of no more than 3 members (individual submissions allowed).
- **Original Work:** Submissions must be original, and all analysis should be conducted by your team. Plagiarism or the use of external analysis will result in disqualification.
- **Problem Statements:** You are required to work on only one of the three provided problem statements. Choose the one that best fits your team's expertise and interests.
- **Anonymity:** Participants must not mention their team name or team members' names anywhere on the pitch deck, except on the file name (which will later be anonymised). Only the assigned team number should be included on the first slide. Any identity markers on the slides may result in disqualification.
- **Citations:** All resources, references, and data used in the pitch deck must be consistently referenced within the deck. Citations can be included on an extra slide that contains the group number.
- **Grading Guidelines:** Submissions would be assessed based on (1) accurate application of behavior principles, (2) data analysis and tools deployed, (3) understanding of the context and stakeholders, and (4) quality of insights drawn.
- **Response Format:** Upload 2 files (1) PDF File which should explain your insights, the context you have collected, data outputs, and other relevant information and (2) Excel/R/Stata File which should showcase your data work.
- **Submission Timeline:** All entries must be submitted by 15th July at 11:59 pm IST. We will not accept any late submissions.

Important Note: This Hackathon does not require you to find policy solutions, but only uncover interesting data-backed behavioral insights.

Getting ready for submission

Once you submit the registration form, you will receive an autogenerated confirmation email containing the link for final submission.

Contact Us - Send in your doubts by July 7 to contact@abcd.guide, with the subject line "Hackathon Doubts". We will release responses in the form of collated FAQs by July 10.

Annexure A

Problem Statement I

Context: Women's participation in decision-making has increased from 73% in NFHS-4 to 80% in NFHS-5. Furthermore, nearly 79% of women have a bank or a savings account that they themselves use.

Question: Using relevant data from the NFHS-5 dataset, identify how women's empowerment in decision-making and economic status affect their outcomes on other indicators such as various health indicators, experiencing spousal violence, indicators related to their families and/ or children.

Problem Statement II

Context: 59% of women had at least four Ante Natal Care (ANC) visits during their last pregnancy. However, only 52% of women are allowed to go to the health facility on their own. Further, 21% of men didn't attend ANC visits because they did not feel it was necessary, nor did they allow their partner to go.

Question: Using data from the NFHS-5 dataset, identify the effect that women participation and partner alignment on ANC visits has on overall health outcomes of the mother and the child post delivery.

Problem Statement III

Context: 87% of men are likely to say that both the husband and the wife should have an equal say in decisions regarding how many children to have.

Question: Using data from the NFHS-5 dataset, identify the effect that women participation and partner alignment on ANC visits has on overall health outcomes of the mother and the child post delivery.