



DATA & FEST

BOOT CAMPS | COMPETITIONS | HACKATHON | GUEST SPEAKERS

13 MARCH - 5 APRIL





Hackathon

Organised by - Indeed Inspiring
Infotech



What is Hackathon ?

Hackathon is a competition where programmers compete to create programs that can accomplish specific Task.



Goal of Hackathon

- You'll learn new technical skills
- There's no better way to learn new technical skills than by participating in a hackathon.
- It's a great opportunity to brush up on your technical knowledge or get to grips with the basics if you've never done anything technical before.

Schedule

- Starting Day : 15 March 2023
- End day : 29 March 2023
- Time of Submission : Till 12 AM on 29 march
- Problem statement
- Required application : Jupyter Notebook , Colab

Problem Statement

- Use ML model to predict the risk of prepayment for mortgage backed securities.
- This means predicting the likelihood that borrowers will pay off their mortgage loans earlier than expected, which affects the returns on these securities
- The goal is to develop models that can accurately predict prepayment risk to help investors make informed decisions about buying and selling these securities

Introduction of Dataset

- Mortgage-backed securities (MBS) are securities backed by a collection of mortgage loans. While any type of mortgage loans, residential or commercial, can be used as a collateral for a mortgage-backed security, most are backed by residential mortgages
- The various Machine Learning models that could predict the prepayment risk of residential mortgage loans by using machine learning techniques like Logistic Regression and k-nearest neighbors (KNN) algorithms.

Download Link

Dataset : Download the dataset from this link:

<https://drive.google.com/file/d/1QcoVoKfqZ2sI5ezRsOEYEgxSU1n-kNhn/view?usp=sharing>

Note: The unknown values are imputed as X which are missing values .

Social Media Guidance

Steps To Complete Assignment:

1. Post your solution (pdf format) on LinkedIn and Twitter with proper tagging

LinkedIn :

[@IndeedInspiringInfotech](#), [@NASSCOMM](#), [@NSDLIndia](#), [@Ministry of Science & Technology](#),
[@Prushal Technology Pvt Ltd](#) .

Twitter :

[@IndeedInspiringInfotech](#) , [@NASSCOMM](#) , [@NSDLIndia](#) , [@Ministry of Education India](#) ,
[@Ministry of Science & Technology](#) .

2. Copy the post link and submit it in provided google form.

Social Media Guidance

3. Add multiple and innovative (copy this hashtags) #hackathon #coding #hacking #technology #hacker #programming #ThinkDigitalThinkIndia #futureready #digitaltransformation #ReimagineFuture #Skills4AllAnytimeAnywhere #SkillIndia #engineering #bigdata #datascience #DigitalIndia #EducationForAll #DataFest #Indeedinspiring #Prushaltech

Important Links

Registration link : <https://forms.gle/Wp3ksi4zd3Qj5BfY8>

Task submission link : <https://forms.gle/sjxPwp4FnDWu5cNz6>