# Machine Learning – DSC, Proposal

## Introduction:

In today's rapidly evolving digital landscape, Machine Learning (ML), Artificial Intelligence (AI), and Data Science (DS) have become integral components of various industries. To meet the growing demand for expertise in these fields and prepare our members for the future, we propose the creation of a dedicated Machine Learning Domain within the Data Science Club at MKOnlineClasses.

## Objectives:

**Enhancing Knowledge:** The primary objective of the Machine Learning Domain is to enhance the knowledge of our members in the domains of Machine Learning, Artificial Intelligence, and Data Science, ensuring they grasp the concepts comprehensively.

**Hands-on Experience:** We will place a significant emphasis on practical, hands-on learning. Members will work on real-world projects to apply their theoretical knowledge and gain practical skills.

**Keeping Up with the Times:** We aim to provide our members with the latest insights and advancements in ML, AI, and DS. These technologies are at the forefront of innovation, and staying updated is crucial for future career opportunities.

## Activities:

**Team Formation:** We will form teams of interested members and assign mentors with expertise in ML, AI, and DS to guide them. Each team will work on projects relevant to their level of expertise.

**Structured Learning:** We will conduct regular workshops, seminars, and online courses to ensure our members have a strong conceptual understanding of ML, AI, and DS.

**Practical Projects:** Members will have the opportunity to apply their knowledge by working on real-world projects, both individual and team-based. These projects will cover various domains, from healthcare to finance, to provide a well-rounded experience.

**Mock Interview Sessions:** To build confidence and prepare members for the job market, we will conduct mock interview sessions (viva) that simulate real interview scenarios. This will help our members not only master technical skills but also improve their communication and presentation abilities.

**Guest Speakers and Industry Connect**: We will invite guest speakers from the industry to share their insights and experiences, helping our members understand the practical applications of ML, AI, and DS in different sectors.

## Importance in Upcoming Times:

The Machine Learning Domain within the Data Science Club of MKOnlineClasses is essential for several reasons:

**Job Market Demands:** ML, AI, and DS are among the most sought-after skills in the job market. Equipping our members with these skills will significantly enhance their career prospects.

**Innovation and Future Trends:** These technologies drive innovation across industries. Understanding their potential and staying updated is critical for future professionals.

**Interdisciplinary Skills:** ML, AI, and DS are not limited to one domain. They are interdisciplinary and applicable in fields like healthcare, finance, e-commerce, and more.

**Competitive Advantage:** Having practical experience in ML, AI, and DS will set our members apart from their peers and give them a competitive edge.

# Conclusion:

The Machine Learning Domain in the Data Science Club of MKOnlineClasses aims to empower our members with knowledge and skills that are not only relevant but crucial for the future. We believe that by providing a comprehensive learning experience, practical projects, and opportunities for personal growth, we can prepare our members to excel in the ever-evolving world of ML, AI, and DS.

# Founding members :

Madhav Kumar Choudhary (Founder – MKOnlineClasses, Sanskar, DSC)

LinkedIn : https://www.linkedin.com/in/madhav-kumar-choudhary-318948207/

Shubham Kokila (Co-Founder, Club President)

LinkedIn : https://www.linkedin.com/in/shubham-kokila-696bab220/

# Initiatives of MK FOUNDATIONS :

**MKOnlineClasses :** An Online Learning Platform

Instagram : https://www.instagram.com/mkonlineclasses/

LinkedIn : https://www.linkedin.com/in/mk-onlineclasses-b6a327290/

Youtube : https://www.youtube.com/@mkonlineclasses

**Sanskar :** Social Work

Instagram : https://www.instagram.com/sanskar.mkf/

Youtube : https://www.youtube.com/@sanskar_mkf

# INSTRUCTIONS FOR 1<sup>ST</sup> WEEK :

(Mode of Communication – **Whatsapp Group**)

**Group A :**  Team details has been shared in whatsapp group.

**Mentor**: Madhav

**Group B :**  Team details has been shared in whatsapp group.

**Mentor:** Shubham

**Task Link:** https://www.kaggle.com/competitions/house-prices-advanced-regression-techniques/overview

(Every week Task LINK will be updated and shared in whtsapp Group.)

Youtube : https://www.youtube.com/live/9c1rAhs9diw?si=rteSQHbt_VJnuVcp

**Deadline 1:** 01<sup>st</sup> Oct, (Sunday)

**Kaggle Certification :** Intro to Programming Certificate - Python – Intro to  ML Pandas– Data Visualisation – Intermediate ML – and many more (**1 in each Week**).

## ML Proj:

- Define Problem Statement
- Load the dataset
- Gain Data Insights
- Do Statistical Summary
- Apply Visualisation Technique
- Notebook should be neat and clean, Mark every insights in Notebook.

## Viva Voce :

1. It will be like mock-interview session.
2. Viva will be taken by mentors.
3. Viva sessions may include questions related to Kaggle notebook, Kaggle Certifications, Aptitude Questions, Coding Questions, Conceptual Questions, Machine Learning Questions, Data Science related Questions, CSE-Core Subject Questions, Mathematics Questions, DBMS Questions, SQL Questions, Big Data Queries, Case-Study Questions.
4. After each viva, Overall as well as individual feedback will be provided as input to work on.

**Note :  If you also want to join, get in touch with the Club President.**

## Rule: The MLP project will be conducted on the Kaggle platform.

1. Only students who register to the MLP Project during the group allocation are allowed to participate in this project.
2. Each student will participate individually only. This is not a group project.
3. No external data can be used to train your model, if found otherwise, your project will be discarded.
4. Do not use any accelerators available in the Kaggle platform. Use a CPU only environment to execute your notebooks, which is by default for every notebook.
5. You are supposed to keep your project code in private mode. You will be disqualified if your code is found public.
6. **Plagiarism is a serious offense. Please do not cheat.**

## How To Prepare For Viva Voce Examination :

1. You are expected to clearly explain the code you have written and logically describe your choice.
2. The viva examiner may ask you to briefly (say in 5 minutes or less) walk through your Kaggle notebook.
3. The viva examiner may ask questions from any course you have taken for certification. The Kaggle competition may belong to only, say classification, yet the examiner can ask questions from regression and unsupervised machine learning, i.e. **all topics you have learned till now.**
4. Only using libraries and functions (e.g. DecisionTreeClassifier, SVC, etc.) is not sufficient, you should also know how it works internally. You should be able to explain the workflow of code.
5. You may be asked to write code from scratch or make changes to your existing code during your viva exam.

## General Instructions/Information :

1. Each team will have a team Leader.
2. Team Leader will have to take responsibility of each member, they have to help each members individually whenever they find any difficulties.
3. Inactive members will be dropped from team based on the feedback from team leader. They will not be given to join team from next week onwards.
4. Each week, we will change team leader. So that everyone will get opportunity to learn the leadership quality.
5. You can take help from ChatGPT, Chrome, Documentation but do not blindly copy all the code, try to understand them, learn the code, you should be able to change the code if asked during viva-voce.
6. Team Leader will have to update the team mentors about the status of team member.
7. If any learner's notebook is found as plagiarised, their submission will be discarded.
8. All of us will have to maintain the code of conduct. If not, they will be dropped from the MKOnlineClasses community and its resources.
9. Feel free to contact us for any type of doubts/queries.

# MK Foundations - Code of Conduct

MK Foundation is dedicated to provide a welcoming and inclusive environment for all members, regardless of their background, identity, or experience. This Code of Conduct outlines our shared expectations and values to ensure a positive and respectful community for everyone. By participating in MKOnlineClasses, you agree to abide by these guidelines.

### 1. Be Respectful

- Treat all community members with respect and kindness.
- Be open to diverse perspectives and experiences.
- Please refrain from making offensive or disrespectful comments. Our community values inclusivity and respect for all its members, regardless of their race, gender, religion, sexual orientation, disability, or age. Discriminatory remarks based on any of these factors or any other characteristic are not tolerated here.
- Do not engage in harassment, bullying, or any form of discrimination.

### 2. Be Inclusive

- Welcome newcomers and help them feel comfortable and valued.
- Encourage and support others to participate and contribute.
- Create an environment where everyone feels they can belong.

### 3. Be Constructive

- Offer constructive feedback and criticism, focusing on ideas and contributions, not personal attacks.
- Use clear and concise language when providing feedback.
- Foster a culture of continuous improvement.

### 4. Be Mindful of Your Language

- Avoid offensive or inappropriate language, including profanity and hate speech.
- Use content warnings when discussing sensitive or triggering topics.
- Respect others' pronouns and identities.

### 5. Respect Privacy

- Do not share personal or confidential information about others without their consent.
- Respect the privacy and boundaries of fellow community members.

### 6. Follow Community Guidelines

- Familiarize yourself with and adhere to any specific community guidelines, rules, or policies.
- Report any violations to the community Founders, Club President.

## Consequences of Violations

Violations of this Code of Conduct may result in consequences, which can include warnings, temporary or permanent suspension from the community, or other actions deemed appropriate by the Team Leader, Mentor, Founders, Club President.

**Reporting Violations**

All of us will have to maintain the code of conduct. If not, they will be dropped from the MKOnlineClasses community and its resources.

**MKOnlineClasses** is committed to maintaining a safe, respectful, and inclusive space for all members. By following this Code of Conduct, we can work together to create a vibrant and supportive community.

**Thank you for being a part of MKOnlineClasses.**

**It's better to start today, if you have not started.**

**Join us, shape your growth.**

## Suggestion :

Please dedicate your 1 hr of time for this.

## Note: This pdf is tentative, will keep on updating it.

Thankyou and All the best !!

Shubham Kokila

Club President-DSC,MKOC

7983923205