



**Ahmedabad**  
University

## **CSE-523 Machine Learning**

### **Weekly Report-1**

Project Title : Use fuzzy logic to find direction of motion of a vehicle.

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Date of Submission: 10-02-2024

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Date : 03/02/24

We finalize our project title on 1st of February so given the limited timeframe of just two days, our progress may be modest; nevertheless, here is an overview of our accomplishments. We surf about the title and what has been done already in the given domain.

### **Activities:**

Flow chart :

- On the very first day we decided to make a flowchart addressing the things we are going to do in our project and what we are planning to do in upcoming weeks.

Surfing and Exploration:

- As mentioned in the introduction, we surf about the problem statement and further we search for the research and already solved problem in the given domain.

### **Key Learnings:**

- Fuzzy logic provides a flexible framework for handling uncertainty and vagueness in decision-making processes.
- We can implement fuzzy logic in real life problem of traffic management to make it more ideal or accurate
- Also it has wide applications ranging from control systems in engineering to natural language processing and expert systems in AI.

### **Conclusion:**

The first week of our research journey was a kind of meta-data (metadata is data of data) which was dedicated to plan the whole thing such that it will help us to utilize the upcoming week properly and help us overfit such that our cost will become zero.