

## Project Initialization and Planning Phase

|               |                                  |
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| Date          | 21 May 2025                      |
| Student Name  | Aditya Anilkumar Bhole           |
| Project Name  | Restaurant Recommendation system |
| Maximum Marks | 3 Marks                          |

### Problem Statements (Restaurant Recommendation system):

| PS No. | I am (Customer)             | I'm trying to                                           | But                                          | Because                                            | Which makes me feel                 |
|--------|-----------------------------|---------------------------------------------------------|----------------------------------------------|----------------------------------------------------|-------------------------------------|
| PS- 1  | A tourist in a new city     | Find good local restaurants                             | I don't know the area well                   | I lack local knowledge or reviews                  | Confused and unsure of where to eat |
| PS- 2  | A vegetarian diner          | Get recommendations for veg-only restaurants            | Most apps show mixed cuisine places          | I want strict dietary options                      | Frustrated and unsupported          |
| PS- 3  | A restaurant owner          | Attract more customers through recommendation platforms | My restaurant is not being recommended often | The system doesn't promote new or small businesses | Invisible and discouraged           |
| PS- 4  | A student on a tight budget | Find affordable but tasty restaurants                   | Expensive options are shown first            | Filters don't prioritize price or value            | Overwhelmed and discouraged         |
| PS- 5  | A delivery app user         | Get suggestions based on past orders                    | It doesn't adapt to my taste                 | The system lacks learning                          | Frustrated by repetition            |

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|--------------|--------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------------|---------------------------------|
| <b>PS- 6</b> | A parent of young kids   | Find kid-friendly and hygienic restaurants | No way to filter for child-friendly        | Lack of safety and family-focused features amenities | Anxious about experience        |
| <b>PS- 7</b> | A small restaurant owner | Increase customer footfall via platforms   | My business is buried under chain listings | Ranking algorithms favor large brands                | Discouraged and invisible guide |

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|---------------|----------------------------------|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|----------------------------------------|
| <b>PS- 8</b>  | A new-in-town resident           | Explore culturally diverse food options        | Unaware of hidden gems in my area                | No cultural/ethnic tags or user reviews          | Disconnected and bored of same cuisine |
| <b>PS- 9</b>  | A food delivery platform analyst | Monitor food safety and restaurant quality     | Can't verify ingredient safety from menus        | Platforms lack AI food item scanners or trackers | Concerned about consumer trust         |
| <b>PS- 10</b> | A data scientist                 | Analyze food trends from reviews               | Datasets are messy, biased, or unavailable       | Lack of structured sentiment and metadata        | Blocked in model building and research |
| <b>PS- 11</b> | A foodie traveler                | Find top-rated local restaurants in new cities | Recommendations don't match my taste or location | Generic, irrelevant suggestions                  | Frustrated and unsure where to eat     |
| <b>PS- 12</b> | A restaurant owner               | Improve my visibility on food apps             | My reviews are outdated or low-rated             | I can't easily respond or update info            | Powerless and misrepresented           |
| <b>PS- 13</b> | A health-conscious customer      | Find healthy eating options nearby             | Menus and calorie info are missing               | I can't make informed decisions                  | Disconnected from my health goals      |

|               |                              |                                                  |                                              |                                          |                                                    |
|---------------|------------------------------|--------------------------------------------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|
| <b>PS- 14</b> | A healthconscious individual | Track the health benefits of different mushrooms | I can't identify what's in the store or dish | There's no easy app for instant scanning | Disappointed and disconnected from my health goals |
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