Six-Month Roadmap for MAS Student

MONTH 1:

Week 1:

Focused Topics and Expectations

1. **SQL (30%-40%)**
    - **Focus on learning the fundamentals of SQL, including data manipulation (SELECT, INSERT, UPDATE, DELETE) and data definition (CREATE, ALTER, DROP).**
    - **Aim to cover advanced topics like joins, subqueries, and indexes.**
    - **Ensure you understand how to optimize queries and manage databases effectively.**
2. **Quant (5%-10%)**
    - **Speed Math: Practice techniques to improve calculation speed, such as mental math tricks and shortcut methods for arithmetic operations.**
    - **Percentage: Master concepts related to percentages, including percentage change, percentage of a quantity, and applications in various problem-solving scenarios.**

Performance Targets:

- **Weekly Test Score: Aim to achieve a score higher than the average mark of 53.**
- **Sectional Test Marks: Strive to score around or above 70 marks in sectional tests.**
- **Expected Total Marks: Your total score across all tests should exceed 153 out of 200.**

Course Completion Guidelines:

- **SQL Course:**
    - **If you have completed more than 30% of the SQL course, your progress is satisfactory. Continue studying to deepen your understanding.**
    - **If less than 30% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**
- **Quant Course:**
    - **If you have completed more than 5% of the Quant course, your progress is on track. Keep practicing to solidify your skills.**
    - **If less than 5% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.**

Revision and Practice:

- **If your average total marks fall below 153 out of 200, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

1. **SQL (30%-40%):**

- **Expectation:**
  - **Learn the fundamentals of SQL, including data manipulation (SELECT, INSERT, UPDATE, DELETE) and data definition (CREATE, ALTER, DROP).**
  - **Cover advanced topics like joins, subqueries, and indexes.**
  - **Understand how to optimize queries and manage databases effectively.**
- **Feedback:**
  - **Achieved 30%-40% of the Course:**
    - **Great progress in SQL fundamentals and advanced topics.**
    - **Demonstrated a good understanding of data manipulation and definition.**
    - **Shown proficiency in query optimization and database management.**
    - **Continue to practice and apply these skills in real-world scenarios.**
  - **Not Achieved 30%-40% of the Course:**
    - **Focus on covering the remaining SQL topics.**
    - **Review the basics and practice advanced concepts like joins and subqueries.**
    - **Allocate additional time to understand query optimization and database management techniques.**

2.Quant (5%-10%):

- **Expectation:**
  - **Practice techniques to improve calculation speed, such as mental math tricks and shortcut methods for arithmetic operations.**
  - **Master concepts related to percentages, including percentage change, percentage of a quantity, and applications in various problem-solving scenarios.**
- **Feedback:**
  - **Achieved 5%-10% of the Course:**
    - **Good progress in speed math and percentage concepts.**
    - **Improved calculation speed and understanding of percentage-related problems.**
    - **Continue practicing to further enhance proficiency.**

- **Not Achieved 5%-10% of the Course:**
  - **Prioritize practicing speed math techniques and mastering percentage concepts.**
  - **Review and practice additional problems to strengthen understanding.**
  - **Ensure consistent effort to meet the learning targets.**

Week 2:

Focused Topics and Expectations

1. **SQL (30%-60%)**
   - **Expand your knowledge of SQL, covering advanced data manipulation and data definition techniques.**
   - **Study complex queries, including nested subqueries, common table expressions (CTEs), and window functions.**
   - **Learn about database transactions, concurrency control, and data integrity.**
2. **Quant (10%-15%)**
   - **Profit and Loss: Understand the concepts of cost price, selling price, profit percentage, and loss percentage. Practice problems involving discounts, markups, and break-even points.**
   - **Simple and Compound Interest(Basics): Master the formulas for simple and compound interest. Solve problems related to interest calculations over different time periods and scenarios involving principal amounts and rates of interest.**

Performance Targets:

- **Weekly Test Score: Aim to achieve a score higher than the average mark of 51.**
- **Profit and Loss Sectional Test Marks: Strive to score around or above 38 marks in sectional tests.**
- **Expected Total Marks: Your total score across all tests should exceed average marks of the test.**

Course Completion Guidelines:

- **SQL Course:**
  - **If you have completed more than 50% of the SQL course, your progress is satisfactory. Continue studying to deepen your understanding.**

    - **If less than 50% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**
- **Quant Course:**
    - **If you have completed more than 15% of the Quant course, your progress is on track. Keep practicing to solidify your skills.**
    - **If less than 15% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.**

Revision and Practice:

- **If your average total marks fall below average marks of the class test marks, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

SQL (30%-60%):

- **Expectation:**
    - **Expand your knowledge of SQL by covering advanced data manipulation and data definition techniques.**
    - **Study complex queries, including nested subqueries, common table expressions (CTEs), and window functions.**
    - **Learn about database transactions, concurrency control, and data integrity.**
- **Feedback:**
    - **Achieved 30%-60% of the Course:**
        - **Excellent progress in mastering advanced SQL concepts.**
        - **Demonstrated understanding of complex queries and advanced data manipulation.**
        - **Gained knowledge in database transactions, concurrency control, and data integrity.**
        - **Continue applying these skills to practical scenarios and real-world problems.**
    - **Not Achieved 30%-60% of the Course:**
        - **Focus on completing the remaining SQL topics.**
        - **Review and practice complex queries, including nested subqueries, CTEs, and window functions.**
        - **Allocate additional time to understand database transactions, concurrency control, and data integrity concepts.**

Quant (10%-15%):

- **Expectation:**
    - **Understand the concepts of cost price, selling price, profit percentage, and loss percentage. Practice problems involving discounts, markups, and break-even points.**
    - **Master the formulas for simple and compound interest. Solve problems related to interest calculations over different time periods and scenarios involving principal amounts and rates of interest.**
- **Feedback:**
    - **Achieved 10%-15% of the Course:**
        - **Good progress in understanding profit and loss concepts.**
        - **Improved problem-solving skills in scenarios involving discounts, markups, and break-even points.**
        - **Gained proficiency in simple and compound interest calculations.**
        - **Continue practicing to reinforce these concepts and improve accuracy.**
    - **Not Achieved 10%-15% of the Course:**
        - **Focus on completing the remaining Quant topics.**
        - **Review and practice problems related to profit and loss, including discounts, markups, and break-even points.**
        - **Allocate more time to mastering simple and compound interest formulas and calculations.**
        - **Ensure consistent practice to enhance understanding and problem-solving speed.**

Week 3:

Focused Topics and Expectations

1. **SQL (100%)**
    - **Aim to complete 100% of the SQL course. This includes mastering advanced SQL topics, complex queries, database optimization, and management techniques.**
    - **Focus on real-world applications and case studies to solidify your understanding.**
2. **Quant (Near 20%)**
    - **Continue practicing Profit and Loss and Simple and Compound Interest. Ensure you can solve various problem types with confidence and accuracy.**

Performance Targets:

- **Weekly Test Score: Aim to achieve a score higher than the average mark of 35.**
- **Sectional Test Marks: Strive to score above the average marks.**

- **Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.**

Course Completion Guidelines:

- **SQL Course:**
  - **If you have completed more than 100% of the SQL course, your progress is satisfactory. Continue to refine and apply your knowledge.**
  - **If less than 100% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**
- **Quant Course:**
  - **If you have completed more than 15% of the Quant course, your progress is on track. Keep practicing to solidify your skills.**
  - **If less than 15% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.**

Revision and Practice:

- **If your average total marks fall below the sum of the averages of Weekly and Sectional Tests, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

SQL (100%):

- **Expectation:**
  - **Aim to complete 100% of the SQL course. This includes mastering advanced SQL topics, complex queries, database optimization, and management techniques.**
  - **Focus on real-world applications and case studies to solidify your understanding.**
- **Feedback:**
  - **Achieved 100% of the Course:**
    - **Outstanding achievement in mastering SQL.**
    - **Demonstrated expertise in advanced SQL topics, complex queries, and database optimization.**
    - **Successfully applied SQL knowledge to real-world scenarios and case studies.**
    - **Ready to tackle more complex database management tasks and optimization challenges.**

    - **Not Achieved 100% of the Course:**
        - **Prioritize completing the remaining SQL topics.**
        - **Allocate additional time to practice and review advanced SQL concepts, complex queries, and database optimization techniques.**
        - **Engage in more real-world applications and case studies to reinforce your understanding.**

Quant (Near 20%):

- **Expectation:**
    - **Continue practicing Profit and Loss and Simple and Compound Interest.**
    - **Ensure you can solve various problem types with confidence and accuracy.**
- **Feedback:**
    - **Achieved Near 20% of the Course:**
        - **Good progress in mastering Profit and Loss and Simple and Compound Interest.**
        - **Demonstrated ability to solve a variety of problems with confidence and accuracy.**
        - **Ready to move on to more complex quantitative topics.**
    - **Not Achieved Near 20% of the Course:**
        - **Focus on completing the remaining Quant topics.**
        - **Review and practice a variety of problem types related to Profit and Loss and Simple and Compound Interest.**
        - **Ensure consistent practice to improve problem-solving speed and accuracy.**

Week 4:

Focused Topics and Expectations

1. **Python (20%-25%)**
    - **Aim to cover 20%-25% of the Python course content.**
    - **Focus on covering the basics of Python, including syntax, data types, control structures, functions, and modules.**

Performance Targets:

- **Weekly Test Score: Aim to achieve a score higher than the average marks.**
- **Sectional Test: There is no sectional test this week. Instead, focus on revising previous topics and attending Communication Enhancement Sessions.**
- **Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.**

Course Completion Guidelines:

- **Python Course:**
    - **If you have completed more than 20% of the Python course, your progress is satisfactory. Continue studying to deepen your understanding.**
    - **If less than 20% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks fall below the sum of the averages of Weekly Tests, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

Python (20%-25%):

- **Expectation:**
    - **Aim to cover 20%-25% of the Python course content.**
    - **Focus on covering the basics of Python, including syntax, data types, control structures, functions, and modules.**
- **Feedback:**
    - **Achieved 20%-25% of the Course:**
        - **Good progress in understanding the basics of Python.**
        - **Successfully covered fundamental concepts such as syntax, data types, control structures, functions, and modules.**
        - **Ready to apply basic Python knowledge to simple projects and exercises.**
    - **Not Achieved 20%-25% of the Course:**
        - **Prioritize completing the remaining Python basics.**
        - **Allocate more time to practice and review core concepts like syntax, data types, control structures, functions, and modules.**
        - **Engage in hands-on exercises and projects to reinforce your understanding of basic Python programming.**

MONTH 2:

Week 1:

Focused Topics and Expectations

1. **Python (50%-60%)**
    - **Focus on advancing through the Python course, aiming to complete 50%-60% of the material. This should include deeper dives into Functions, Modules,and OOPs.**
    - **Ensure a solid understanding of topics covered so far, with emphasis on practice and real-world applications.**

Performance Targets:

- **Weekly Test Score: Attempt the weekly test focused on Python and aim to score higher than the average marks.**
- **Sectional Test: There is no sectional test this week. Use this time to revise previous topics and attend Communication Enhancement Sessions.**

Course Completion Guidelines:

- **Python Course:**
    - **If you have completed more than 50% of the Python course, your progress is satisfactory. Continue to build on this foundation.**
    - **If less than 50% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

Python (50%-60%):

- **Expectation:**
    - **Focus on advancing through the Python course, aiming to complete 50%-60% of the material.**
    - **This should include deeper dives into functions, modules, and object-oriented programming (OOP).**
    - **Ensure a solid understanding of topics covered so far, with emphasis on practice and real-world applications.**
- **Feedback:**
    - **Achieved 50%-60% of the Course:**
        - **Excellent progress in the Python course.**
        - **Successfully covered advanced topics including functions, modules, and OOP.**
        - **Demonstrates a strong grasp of Python programming concepts and their practical applications.**
        - **Continue building on this knowledge with more complex projects and real-world scenarios.**
    - **Not Achieved 50%-60% of the Course:**
        - **Focus on completing the remaining advanced Python topics.**
        - **Allocate extra study time to functions, modules, and OOP to ensure a thorough understanding.**
        - **Engage in additional practice exercises and projects to reinforce your learning and improve your proficiency in Python.**

Week 2:

Focused Topics and Expectations

1. **Python (100%)**
    - **Aim to complete 100% of the Python course, including mastering data structures (Array Linked Lists, Binary Trees etc.) and solving coding questions from different websites.**
    - **Ensure a comprehensive understanding of advanced concepts and practical applications.**

Performance Targets:

- **Weekly Test: The test is based on SQL, so revise SQL topics thoroughly before the test. Attempt the Python-based weekly test and aim to score higher than the average marks.**

- **Sectional Test: There is no sectional test this week. Use this time to revise previous topics and attend Group Discussion Sessions.**

Course Completion Guidelines:

- **Python Course:**
    - **If you have completed 100% of the Python course, including data structures and coding questions, your progress is excellent. Continue to build on this foundation.**
    - **If less than 100% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

Python (100%):

- **Expectation:**
    - **Aim to complete 100% of the Python course, including mastering data structures (arrays, linked lists, binary trees, etc.).**
    - **Solve coding questions from various websites to reinforce learning.**
    - **Ensure a comprehensive understanding of advanced concepts and practical applications.**
- **Feedback:**
    - **Achieved 100% of the Course:**
        - **Outstanding progress in the Python course.**
        - **Successfully mastered advanced data structures and algorithms.**
        - **Demonstrates a deep understanding of Python and its practical applications.**
        - **Continue applying this knowledge to complex coding problems and real-world projects.**
    - **Not Achieved 100% of the Course:**
        - **Focus on completing the remaining advanced Python topics.**
        - **Allocate additional study time to mastering data structures and algorithms.**

- **Practice solving coding questions from various websites to enhance your skills.**
- **Ensure thorough understanding and ability to apply concepts in practical scenarios.**

Week 3:

Focused Topics and Expectations

1. **Statistics (45%-50%)**
    - **Aim to complete 45%-50% of the Statistics course, ensuring a solid understanding of fundamental statistics concepts, descriptive Stats(Outliers and Variability) and distributions.**

Performance Targets:

- **Weekly Test: The test is based on Python, so revise Python topics thoroughly before the test. Attempt the weekly test focused on Python and aim to score higher than the average marks.**
- **Sectional Test: There is no sectional test this week. Use this time to revise previous topics, review your tests, and practice the areas where you have made mistakes.**

Course Completion Guidelines:

- **Statistics Course:**
    - **If you have completed more than 45% of the Statistics course, your progress is satisfactory. Continue to build on this foundation.**
    - **If less than 45% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, take time to review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems to reinforce your understanding.**
- **If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly. This will help ensure consistent progress and preparation for future assessments.**

End of Week Feedback and Expectations

Statistics (45%-50%):

- **Expectation:**
    - **Aim to complete 45%-50% of the Statistics course.**
    - **Ensure a solid understanding of fundamental statistics concepts, including descriptive statistics (outliers and variability) and distributions.**
- **Feedback:**
    - **Achieved 45%-50% of the Course:**
        - **Excellent progress in the Statistics course.**
        - **Strong grasp of fundamental statistics concepts and descriptive statistics.**
        - **Demonstrates a clear understanding of distributions and their applications.**
        - **Continue building on this foundation by exploring more advanced topics and real-world applications.**
    - **Not Achieved 45%-50% of the Course:**
        - **Focus on completing the remaining topics to reach the 45%-50% target.**
        - **Allocate more time to studying fundamental concepts and descriptive statistics.**
        - **Practice problems related to outliers, variability, and distributions to reinforce understanding.**
        - **Review course materials and seek additional resources if needed to grasp challenging concepts.**

Week 4:

Focused Topics and Expectations

1. **Statistics (100%)**
    - **Aim to complete 100% of the Statistics course, ensuring a thorough understanding of both basic and advanced statistical concepts.**
2. **LRDI (3%-5%)**
    - **Focus on mastering Linear and Circular Arrangements within Logical Reasoning and Data Interpretation (LRDI).**

Performance Targets:

- **Weekly Test: This week's test will be based on Statistics. Review all relevant Statistics topics thoroughly before taking the test and aim to score above the average marks.**
- **Sectional Test: There is a sectional test on Linear and Circular Arrangements. Prepare well for this test and aim to achieve a high percentile. After the test, review your performance, identify mistakes, and practice those topics to improve.**

Course Completion Guidelines:

- **Statistics Course:**
  - **If you have completed 100% of the Statistics course, your progress is excellent. Continue to build on this strong foundation.**
  - **If you have not yet reached 100% completion, prioritize catching up on the required topics before taking the weekly tests to ensure you meet expectations.**
- **LRDI Course:**
  - **Aim to cover 3%-5% of the LRDI course, focusing on Linear and Circular Arrangements.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, dedicate additional time to reviewing and practicing the topics you have covered. This includes addressing difficult concepts and solving extra practice problems to reinforce your understanding.**
- **If your marks meet or exceed the targets, maintain your current study routine and ensure consistent participation in all scheduled sessions. This will help solidify your knowledge and keep you on track for future assessments.**

End of Week Feedback and Expectations

Statistics (100%):

- **Expectation:**
  - **Aim to complete 100% of the Statistics course.**
  - **Ensure a thorough understanding of both basic and advanced statistical concepts.**
- **Feedback:**
  - **Achieved 100% of the Course:**
    - **Outstanding achievement in completing the entire Statistics course.**
    - **Demonstrates a comprehensive understanding of both basic and advanced statistical concepts.**
    - **Well-prepared to apply statistical analysis in practical and research scenarios.**
    - **Continue applying this knowledge in projects and real-world data analysis.**
  - **Not Achieved 100% of the Course:**
    - **Focus on completing the remaining topics to reach the 100% target.**
    - **Review both basic and advanced statistical concepts to ensure comprehensive understanding.**
    - **Practice additional problems and case studies to reinforce learning.**

        - **Seek help from additional resources or instructors if needed to understand challenging topics.**

LRDI (3%-5%):

- **Expectation:**
    - **Focus on mastering Linear and Circular Arrangements within Logical Reasoning and Data Interpretation (LRDI).**
- **Feedback:**
    - **Achieved 3%-5% of the Course:**
        - **Good progress in understanding and mastering Linear and Circular Arrangements.**
        - **Skills in logical reasoning and arrangement-solving are improving.**
        - **Continue practicing to further enhance problem-solving abilities in LRDI.**
    - **Not Achieved 3%-5% of the Course:**
        - **Allocate more time to practicing Linear and Circular Arrangements.**
        - **Ensure a solid grasp of the concepts through regular practice and review.**
        - **Utilize additional resources and practice problems to improve understanding and accuracy.**

Additional Activities:

- **Group Discussions and Sessions: Active participation enhances collaborative and communication skills.**
- **Reflection and Planning: Reflect on progress to identify strengths and areas needing improvement, and plan accordingly for ongoing learning and development.**

MONTH 3

Week 1:

Focused Topics and Expectations

1. **Machine Learning (5%-10%)**
    - **Topics: Python Basics, NumPy, and Pandas**
    - **Additional Guidance:**
        - **Begin with understanding Python syntax and basic programming constructs.**
        - **Learn to use NumPy for numerical computations and Pandas for data manipulation.**
        - **Explore Machine Learning blogs and updated modules to stay current with industry trends.**
2. **LRDI (Logical Reasoning and Data Interpretation) (~10%)**
    - **Topics: Line Bar, Column Pie Charts, Tables**
    - **Additional Guidance:**
        - **Focus on understanding how to interpret various data visualizations.**
        - **Practice solving problems related to interpreting charts and tables quickly and accurately.**

Performance Targets:

- **Weekly Test: Based on Machine Learning. Revise all relevant ML topics thoroughly before taking the test and aim to score higher than the average marks.**
- **Sectional Tests: There are two sectional tests this week: one on Linear Arrangement and one on Circular Arrangement. Prepare well for these tests and aim to achieve high scores.**

Course Completion Guidelines:

- **Machine Learning Course:**
    - **If you have completed more than 8% of the ML course, your progress is good. Continue to build on this foundation.**
    - **If less than 8% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, dedicate additional time to reviewing and practicing the topics you have covered. This includes addressing difficult concepts and solving extra practice problems to reinforce your understanding.**
- **If your marks meet or exceed the targets, maintain your current study routine and ensure consistent participation in all scheduled sessions. This will help solidify your knowledge and keep you on track for future assessments.**

Extra Guidance:

- **Time Management: Allocate specific time slots for each subject and stick to a consistent study schedule.**
- **Active Learning: Engage in active learning techniques, such as summarizing what you've learned, teaching the concepts to someone else, or creating mind maps.**
- **Practice Problems: Regularly practice problems, especially for LRDI, to improve speed and accuracy.**
- **Stay Updated: Regularly read Machine Learning blogs and current updated modules to stay informed about the latest trends and advancements in the field.**
- **Seek Help: If you encounter difficult topics, don't hesitate to seek help from peers, instructors, or online forums.**
- **Healthy Habits: Maintain a balanced routine with adequate sleep, nutrition, and physical activity to keep your mind sharp and focused.**

End of Week Feedback and Expectations

Machine Learning (5%-10%):

- **Expectation:**
  - **Aim to cover 5%-10% of the Machine Learning course, focusing on Python Basics, NumPy, and Pandas.**
  - **Begin with understanding Python syntax and basic programming constructs.**
  - **Learn to use NumPy for numerical computations and Pandas for data manipulation.**
  - **Explore Machine Learning blogs and updated modules to stay current with industry trends.**
- **Feedback:**
  - **Achieved 5%-10% of the Course:**
    - **Excellent start to your Machine Learning journey.**
    - **You have a solid understanding of Python basics, and foundational knowledge of NumPy and Pandas.**
    - **Continue building on this foundation and start applying these skills in small projects or exercises.**
  - **Not Achieved 5%-10% of the Course:**
    - **Focus on mastering Python syntax and basic programming constructs.**
    - **Spend additional time learning NumPy and Pandas for numerical computations and data manipulation.**
    - **Utilize online tutorials and practice exercises to reinforce your understanding.**

LRDI (Logical Reasoning and Data Interpretation) (~10%):

- **Expectation:**

    - **Aim to cover approximately 10% of the LRDI course, focusing on Line Bar, Column Pie Charts, and Tables.**
    - **Understand how to interpret various data visualizations.**
    - **Practice solving problems related to interpreting charts and tables quickly and accurately.**
- **Feedback:**
    - **Achieved ~10% of the Course:**
        - **Good progress in understanding and interpreting various data visualizations.**
        - **Your skills in solving problems related to charts and tables are improving.**
        - **Continue practicing to enhance your accuracy and speed in interpreting data.**
    - **Not Achieved ~10% of the Course:**
        - **Allocate more time to practicing problems related to Line Bar, Column Pie Charts, and Tables.**
        - **Focus on improving your ability to quickly and accurately interpret data visualizations.**
        - **Use additional resources and practice problems to strengthen your understanding.**

Week 2:

Focused Topics and Expectations

1. **Machine Learning (15%-20%)**
    - **Topics: Pandas for Exploratory Data Analysis (EDA), Seaborn, Matplotlib**
    - **Aim to complete more than 15%.**
    - **Additional Guidance:**
        - **Use Pandas for data cleaning and manipulation.**
        - **Create visualizations using Seaborn and Matplotlib.**
        - **Attempt course quizzes and work on mini projects involving EDA, regression, and classification.**
2. **LRDI (Logical Reasoning and Data Interpretation) (~15%)**
    - **Topics: Line Bar, Column Pie Charts, Tables**
    - **Aim to complete more than 15%**
    - **Additional Guidance:**
        - **Practice solving problems related to various data visualizations to improve speed and accuracy.**

Performance Targets:

- **Weekly Test: Based on Machine Learning. Review all relevant ML topics thoroughly before taking the test and aim to score higher than the average marks.**
- **Sectional Tests: There are four sectional tests this week: Line Bar, Column Pie Charts, and Tables. Prepare well for these tests and aim to achieve high scores.**

Course Completion Guidelines:

- **Machine Learning Course:**
    - **If you have completed more than 15% of the ML course, your progress is good. Continue to build on this foundation.**
    - **If less than 15% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, dedicate additional time to reviewing and practicing the topics you have covered. This includes addressing difficult concepts and solving extra practice problems to reinforce your understanding.**
- **If your marks meet or exceed the targets, maintain your current study routine and ensure consistent participation in all scheduled sessions. This will help solidify your knowledge and keep you on track for future assessments.**

End of Week Feedback and Expectations

Machine Learning (15%-20%):

- **Expectation:**
    - **Aim to cover 15%-20% of the Machine Learning course, focusing on Pandas for Exploratory Data Analysis (EDA), Seaborn, and Matplotlib.**
    - **Use Pandas for data cleaning and manipulation.**
    - **Create visualizations using Seaborn and Matplotlib.**
    - **Attempt course quizzes and work on mini projects involving EDA, regression, and classification.**
- **Feedback:**
    - **Achieved 15%-20% of the Course:**
        - **Excellent progress in your Machine Learning course.**
        - **You have effectively used Pandas for data cleaning and manipulation.**
        - **Your ability to create visualizations with Seaborn and Matplotlib is improving.**
        - **Continue to apply these skills in more complex projects and explore advanced visualization techniques.**
    - **Not Achieved 15%-20% of the Course:**

        - **Focus on thoroughly learning Pandas for data manipulation and cleaning.**
        - **Spend additional time creating and interpreting visualizations with Seaborn and Matplotlib.**
        - **Ensure you complete course quizzes and work on mini projects to reinforce your learning.**

LRDI (Logical Reasoning and Data Interpretation) (~15%):

- **Expectation:**
    - **Aim to cover approximately 15% of the LRDI course, focusing on Line Bar, Column Pie Charts, and Tables.**
    - **Practice solving problems related to various data visualizations to improve speed and accuracy.**
- **Feedback:**
    - **Achieved ~15% of the Course:**
        - **Good progress in understanding and interpreting data visualizations.**
        - **Your skills in solving problems related to charts and tables are improving.**
        - **Continue practicing to enhance your accuracy and speed in interpreting data.**
    - **Not Achieved ~15% of the Course:**
        - **Allocate more time to practicing problems related to Line Bar, Column Pie Charts, and Tables.**
        - **Focus on improving your ability to quickly and accurately interpret data visualizations.**
        - **Use additional resources and practice problems to strengthen your understanding.**

Week 3:

Focused Topics and Expectations

1. **Machine Learning (~27%)**
    - **Topics: Exploratory Data Analysis (EDA), Bivariate, Univariate, Multivariate Analysis, Feature Scaling**
    - **Additional Guidance:**
        - **Dive deeper into EDA techniques and understand the different types of analysis (bivariate, univariate, multivariate).**
        - **Learn about feature scaling methods and their importance in ML models.**

        - **Attempt quizzes provided during the course to reinforce your understanding.**
2. **Quantitative Aptitude: (~20%)**
    - **Topics: Time and Work**
    - **Additional Guidance:**
        - **Focus on understanding and solving problems related to time and work efficiently.**
        - **Practice various problem sets to improve speed and accuracy.**

Performance Targets:

- **Weekly Test: Based on Machine Learning. Review all relevant ML topics thoroughly before taking the test and aim to score higher than the average marks.**
- **Sectional Test: Time and Work. Prepare well for this test and aim to achieve high scores.**

Course Completion Guidelines:

- **Machine Learning Course:**
    - **If you have completed more than 27% of the ML course, your progress is good. Continue to build on this foundation.**
    - **If less than 27% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, dedicate additional time to reviewing and practicing the topics you have covered. This includes addressing difficult concepts and solving extra practice problems to reinforce your understanding.**
- **If your marks meet or exceed the targets, maintain your current study routine and ensure consistent participation in all scheduled sessions. This will help solidify your knowledge and keep you on track for future assessments.**

End of Week Feedback and Expectations

Machine Learning (~27%):

- **Expectation:**
    - **Aim to cover approximately 27% of the Machine Learning course, focusing on Exploratory Data Analysis (EDA), Bivariate, Univariate, and Multivariate Analysis, and Feature Scaling.**
    - **Dive deeper into EDA techniques and understand the different types of analysis (bivariate, univariate, multivariate).**
    - **Learn about feature scaling methods and their importance in ML models.**

    - **Attempt quizzes provided during the course to reinforce your understanding.**
- **Feedback:**
    - **Achieved ~27% of the Course:**
        - **Excellent progress in your Machine Learning course.**
        - **You have a solid understanding of various EDA techniques and types of analysis.**
        - **Your grasp of feature scaling methods is strong, and you recognize their importance in ML models.**
        - **Continue applying these concepts in practical scenarios and explore more advanced topics.**
    - **Not Achieved ~27% of the Course:**
        - **Focus on mastering EDA techniques, including bivariate, univariate, and multivariate analysis.**
        - **Spend additional time understanding and implementing feature scaling methods.**
        - **Make sure to complete course quizzes to test and reinforce your knowledge.**

Quantitative Aptitude (~20%):

- **Expectation:**
    - **Aim to cover approximately 20% of the Quantitative Aptitude course, focusing on Time and Work.**
    - **Focus on understanding and solving problems related to time and work efficiently.**
    - **Practice various problem sets to improve speed and accuracy.**
- **Feedback:**
    - **Achieved ~20% of the Course:**
        - **Good progress in your Quantitative Aptitude course.**
        - **Your understanding of time and work problems is improving.**
        - **Continue practicing to further enhance your speed and accuracy in solving these types of problems.**
    - **Not Achieved ~20% of the Course:**
        - **Allocate more time to practicing time and work problems.**
        - **Focus on understanding the underlying concepts and improving your problem-solving techniques.**
        - **Utilize additional resources and practice sets to strengthen your skills.**

Week 4:

Focused Topics and Expectations

1. **Machine Learning (~35%)**
    - **Topics: Feature Engineering, Feature Extraction, Imbalanced Dataset, Data Augmentation**
    - **Additional Guidance:**
        - **Focus on understanding and applying various feature engineering and extraction techniques.**
        - **Learn how to handle imbalanced datasets and apply data augmentation methods.**
        - **Attempt quizzes provided during the course to reinforce your understanding.**

2. Quant (25%):Average, Mixture & Allegations

3. Product Management (20%): Expectation: Start the Product Management course and complete 20% of the course content.

Topics:

1. **Introduction to Product Management: Role and responsibilities, key competencies, and processes.**
2. **Product Lifecycle: Stages, product development, and go-to-market strategy.**
3. **Market Research: Identifying customer needs, competitive analysis, and user research.**

Performance Targets:

- **Weekly Test: Based on Machine Learning. Review all relevant ML topics thoroughly before taking the test and aim to score higher than the average marks.**
- **No Sectional Tests: Use this time to revise previous topics and solidify your understanding.**

Course Completion Guidelines:

- **Machine Learning Course:**
    - **If you have completed more than 35% of the ML course, your progress is good. Continue to build on this foundation.**
    - **If less than 35% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.**

Revision and Practice:

- **If your average total marks are less than the sum of the averages of Weekly Tests, dedicate additional time to reviewing and practicing the topics you have covered. This includes addressing difficult concepts and solving extra practice problems to reinforce your understanding.**
- **If your marks meet or exceed the targets, maintain your current study routine and ensure consistent participation in all scheduled sessions. This will help solidify your knowledge and keep you on track for future assessments.**

End of Week Feedback and Expectations

Machine Learning (~35%):

- **Expectation:**
  - **Aim to cover approximately 35% of the Machine Learning course, focusing on Feature Engineering, Feature Extraction, Imbalanced Dataset handling, and Data Augmentation.**
  - **Dive deeper into understanding and applying various feature engineering and extraction techniques.**
  - **Learn effective methods to handle imbalanced datasets and implement data augmentation techniques.**
  - **Attempt quizzes provided during the course to reinforce your understanding.**
- **Feedback:**
  - **Achieved ~35% of the Course:**
    - **Excellent progress in your Machine Learning journey.**
    - **You have a good grasp of feature engineering and extraction techniques.**
    - **Your understanding of handling imbalanced datasets and applying data augmentation methods is commendable.**
    - **Continue practicing and applying these techniques in practical scenarios.**
  - **Not Achieved ~35% of the Course:**
    - **Focus on mastering feature engineering and extraction techniques.**
    - **Spend additional time learning and implementing strategies for handling imbalanced datasets.**
    - **Ensure to complete quizzes to assess and strengthen your understanding.**

Quantitative Aptitude (25%):

- **Expectation:**
  - **Aim to cover approximately 25% of the Quantitative Aptitude course, focusing on topics like Average, Mixture & Allegations.**

    - **Focus on understanding and solving problems related to averages, mixtures, and allegations efficiently.**
- **Feedback:**
    - **Achieved ~25% of the Course:**
        - **Good progress in your Quantitative Aptitude course.**
        - **You have a solid grasp of average, mixture, and allegations concepts.**
        - **Continue practicing to further improve your problem-solving skills in these areas.**
    - **Not Achieved ~25% of the Course:**
        - **Allocate more time to practicing problems related to averages, mixtures, and allegations.**
        - **Focus on understanding the underlying concepts deeply to tackle more complex problems confidently.**

Product Management (20%):

- **Expectation:**
    - **Start the Product Management course and complete 20% of the course content.**
    - **Focus on understanding introductory topics such as product lifecycle and market research.**
- **Feedback:**
    - **Achieved 20% of the Course:**
        - **Good start in the Product Management course.**
        - **You have a foundational understanding of product lifecycle and market research.**
        - **Continue exploring deeper into these topics as you progress.**
    - **Not Achieved 20% of the Course:**
        - **Focus on completing the required percentage of course content.**
        - **Ensure to cover introductory topics thoroughly to build a strong foundation in product management concepts.**

MONTH 4

Week 1:

Focused Topics and Expectations

Machine Learning (Nearly 50% Completed)

- Gradient Descent
    - Understand the concept and application of gradient descent in optimization.
- Bias and Variance
    - Learn to balance bias and variance to improve model performance.
- Linear Regression
    - Cover fundamentals and applications of linear regression.
- Underfitting and Overfitting
    - Understand the causes and solutions for underfitting and overfitting.
- Regularization (Ridge and Lasso Regression)
    - Learn about regularization techniques to prevent overfitting.
- Logistic Regression
    - Study the principles and applications of logistic regression.
- ROC and AUC Curve
    - Understand and interpret ROC and AUC curves for model evaluation.

Deep Learning (Near 15%)

- Neural Network
    - Understand the structure and function of neural networks.
- Activation Functions
    - Learn about different activation functions and their purposes.
- Gradient Descent for Neural Networks
    - Study how gradient descent is applied in training neural networks.
- Artificial Neural Networks (ANN)
    - Understand the basics and applications of ANNs.
- Normalizing Input
    - Learn the importance of normalizing input data.
- Regularization and Normalizing Inputs and Models
    - Study regularization techniques and their applications in neural networks.

Quant (30%)

- Time Speed Distance
    - Practice and master concepts related to time, speed, and distance.

Performance Targets

- Weekly Test Score: Aim to achieve a score higher than the average mark of 35.
- Sectional Test Marks: This week's Sectional Test is based on Time, Speed, and Distance. Strive to score above the average marks.
- Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines

- **Machine Learning Course:**
    - If you have completed more than 50% of the ML course, your progress is satisfactory. Continue to refine and apply your knowledge.
    - If less than 50% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.
- **Deep Learning Course:**
    - If you have completed more than 15% of the Deep Learning course, your progress is on track. Keep practicing to solidify your skills.
    - If less than 15% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.

Revision and Practice

- If your average total marks fall below the sum of the averages of Weekly and Sectional Tests, review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems.
- If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly to ensure consistent progress and preparation for future assessments.

End of Week Feedback and Expectations

Machine Learning (Nearly 50% Completed)

- **Expectation:**
    - Understand and apply concepts of gradient descent, bias and variance, linear regression, underfitting and overfitting, regularization, logistic regression, and ROC and AUC curves.
- **Feedback:**
    - **Achieved 50% or More:**
        - Great progress in understanding and applying ML concepts.
        - Demonstrated proficiency in various regression techniques and model evaluation.
        - Continue to practice and refine these skills.
    - **Not Achieved 50%:**
        - Focus on covering the remaining topics.
        - Review and practice gradient descent, bias and variance, and regularization techniques.
        - Allocate additional time to understand and apply logistic regression and model evaluation metrics.

Deep Learning (Near 15%)

- **Expectation:**

    - Understand the structure and function of neural networks, activation functions, gradient descent for neural networks, artificial neural networks, and the importance of normalizing input data.
- **Feedback:**
    - **Achieved 15% or More:**
        - Good progress in understanding deep learning fundamentals.
        - Demonstrated a basic understanding of neural networks and activation functions.
        - Continue to build on this foundation and practice more advanced concepts.
    - **Not Achieved 15%:**
        - Prioritize covering the necessary topics.
        - Review and practice neural network structures and activation functions.
        - Ensure consistent effort to meet the learning targets.

Quant (30%)

- **Expectation:**
    - Practice and master concepts related to time, speed, and distance.
- **Feedback:**
    - **Achieved 30%:**
        - Good progress in understanding and applying concepts related to time, speed, and distance.
        - Improved problem-solving skills in quant.
        - Continue practicing to enhance proficiency.
    - **Not Achieved 30%:**
        - Focus on practicing time, speed, and distance problems.
        - Review and solve additional problems to strengthen understanding.
        - Ensure consistent practice to meet learning targets.

Week 2:

Focused Topics and Expectations

Machine Learning (70% Completed)

- Decision and Classification Tree
    - Learn the principles and applications of decision trees for classification.
- Regression Tree
    - Understand the use of regression trees for predictive modeling.
- Random Forest
    - Study the ensemble method of random forests for improved predictions.
- Cross Validation

    - Learn the importance of cross-validation in model evaluation.
- Bayes Theorem
    - Understand the fundamentals of Bayes theorem and its applications.
- Naive Bayes
    - Study the Naive Bayes algorithm for classification tasks.
- K-Means Clustering
    - Learn about the k-means clustering algorithm and its applications.

Deep Learning (35% Completed)

- Gradient Checking
    - Understand the process and importance of gradient checking in neural networks.
- Gradient Descent with Momentum
    - Learn about the momentum technique in gradient descent.
- RMSprop
    - Study the RMSprop optimizer for training neural networks.
- Adam Optimizer
    - Learn about the Adam optimizer and its advantages.
- Hyperparameter Tuning
    - Understand the process of hyperparameter tuning for model optimization.
- Batch Normalization
    - Study the technique of batch normalization in neural networks.
- Softmax Regression
    - Learn about softmax regression for classification problems.
- TensorFlow
    - Get introduced to TensorFlow and its applications in deep learning.
- Data Augmentation
    - Understand the importance and techniques of data augmentation.

VARC (Nearly 10%)

- Reading Comprehension
    - Practice and master techniques for effective reading comprehension.

Performance Targets

- Weekly Test Score: Aim to achieve a score higher than the average mark.
- Sectional Test Marks: This week's Sectional Test is based on VARC Reading Comprehension. Strive to score above the average marks.
- Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines

- **Machine Learning Course:**

    - If you have completed more than 70% of the ML course, your progress is satisfactory. Continue to refine and apply your knowledge.
    - If less than 70% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.
- **Deep Learning Course:**
    - If you have completed more than 35% of the Deep Learning course, your progress is on track. Keep practicing to solidify your skills.
    - If less than 35% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.

Revision and Practice

- If your average total marks fall below the sum of the averages of Weekly and Sectional Tests, review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems.
- If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly to ensure consistent progress and preparation for future assessments.

End of Week Feedback and Expectations

Machine Learning (70% Completed)

- **Expectation:**
    - Understand and apply concepts of decision and classification trees, regression trees, random forests, cross-validation, Bayes theorem, Naive Bayes, and k-means clustering.
- **Feedback:**
    - **Achieved 70% or More:**
        - Great progress in understanding and applying ML concepts.
        - Demonstrated proficiency in various machine learning techniques and model evaluation.
        - Continue to practice and refine these skills.
    - **Not Achieved 70%:**
        - Focus on covering the remaining topics.
        - Review and practice decision trees, random forests, and clustering techniques.
        - Allocate additional time to understand and apply Bayes theorem and Naive Bayes.

Deep Learning (35% Completed)

- **Expectation:**

    - Understand the techniques of gradient checking, gradient descent with momentum, RMSprop, Adam optimizer, hyperparameter tuning, batch normalization, softmax regression, TensorFlow, and data augmentation.
- **Feedback:**
    - **Achieved 35% or More:**
        - Good progress in understanding advanced deep learning techniques.
        - Demonstrated a solid understanding of optimizers and neural network training.
        - Continue to build on this foundation and practice more advanced concepts.
    - **Not Achieved 35%:**
        - Prioritize covering the necessary topics.
        - Review and practice gradient descent techniques, batch normalization, and optimizers.
        - Ensure consistent effort to meet the learning targets.

VARC (Nearly 10%)

- **Expectation:**
    - Practice and master techniques for effective reading comprehension.
- **Feedback:**
    - **Achieved 10%:**
        - Good progress in understanding and applying reading comprehension techniques.
        - Improved problem-solving skills in VARC.
        - Continue practicing to enhance proficiency.
    - **Not Achieved 10%:**
        - Focus on practicing reading comprehension problems.
        - Review and solve additional problems to strengthen understanding.
        - Ensure consistent practice to meet learning targets.

Week 3:

Focused Topics and Expectations

Machine Learning (85% Completed)

- K-Nearest Neighbour
    - Understand the K-Nearest Neighbour algorithm and its applications.
- Diabetes Classification
    - Apply machine learning techniques to diabetes classification.

- Support Vector Machine (SVM)
    - Learn about the SVM algorithm for classification tasks.
- SVM Kernel
    - Study the different kernel functions in SVM and their applications.

Deep Learning (50% Completed)

- Computer Vision
    - Get introduced to computer vision concepts and applications.
- Edge Detection
    - Understand the techniques for edge detection in images.
- Padding and Strides
    - Learn about padding and strides in convolutional neural networks (CNN).
- Convolution
    - Study the convolution operation in CNNs.
- Pooling in CNN
    - Understand the pooling techniques used in CNNs.
- ResNet from Scratch
    - Learn to build a ResNet model from scratch.
- Inception Network
    - Study the Inception network architecture and its applications.

VARC (Nearly 20%)

- Reading Comprehension
    - Practice and master techniques for effective reading comprehension.

Product Management (50%)

- Expectation: Go through the Product Management course and complete 50% of the course content.

Performance Targets

- Weekly Test Score: Aim to achieve a score higher than the average mark of 35.
- Sectional Test Marks: This week's Sectional Test is based on VARC Reading Comprehension. Strive to score above the average marks.
- Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines

- **Machine Learning Course:**
    - If you have completed more than 85% of the ML course, your progress is satisfactory. Continue to refine and apply your knowledge.

    - If less than 85% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.
- **Deep Learning Course:**
    - If you have completed more than 50% of the Deep Learning course, your progress is on track. Keep practicing to solidify your skills.
    - If less than 50% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.
- **Product Management Course:**
    - Ensure you complete 50% of the course content to meet the expectation.

Revision and Practice

- If your average total marks fall below the sum of the averages of Weekly and Sectional Tests, review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems.
- If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly to ensure consistent progress and preparation for future assessments.

End of Week Feedback and Expectations

Machine Learning (85% Completed)

- **Expectation:**
    - Understand and apply concepts of K-Nearest Neighbour, diabetes classification, SVM, and SVM kernels.
- **Feedback:**
    - **Achieved 85% or More:**
        - Great progress in understanding and applying ML concepts.
        - Demonstrated proficiency in various machine learning techniques and model evaluation.
        - Continue to practice and refine these skills.
    - **Not Achieved 85%:**
        - Focus on covering the remaining topics.
        - Review and practice SVM and its kernels, and K-Nearest Neighbour.
        - Allocate additional time to understand and apply diabetes classification techniques.

Deep Learning (50% Completed)

- **Expectation:**
    - Understand the techniques of computer vision, edge detection, padding and strides, convolution, pooling in CNN, ResNet, and Inception network.
- **Feedback:**
    - **Achieved 50% or More:**

        - Good progress in understanding advanced deep learning techniques.
        - Demonstrated a solid understanding of CNNs and network architectures.
        - Continue to build on this foundation and practice more advanced concepts.
    - **Not Achieved 50%:**
        - Prioritize covering the necessary topics.
        - Review and practice computer vision techniques and network architectures.
        - Ensure consistent effort to meet the learning targets.

VARC (Nearly 20%)

- **Expectation:**
    - Practice and master techniques for effective reading comprehension.
- **Feedback:**
    - **Achieved 20%:**
        - Good progress in understanding and applying reading comprehension techniques.
        - Improved problem-solving skills in VARC.
        - Continue practicing to enhance proficiency.
    - **Not Achieved 20%:**
        - Focus on practicing reading comprehension problems.
        - Review and solve additional problems to strengthen understanding.
        - Ensure consistent practice to meet learning targets.

Product Management (50%)

- **Expectation:**
    - Complete 50% of the course content.
- **Feedback:**
    - **Achieved 50%:**
        - Good progress in understanding product management concepts.
        - Continue engaging with the course material to build a solid foundation.
    - **Not Achieved 50%:**
        - Prioritize completing the necessary course content.
        - Allocate additional time to understand and apply product management principles.

Week 4:

Focused Topics and Expectations

Machine Learning (100% Completed)

- Principal Component Analysis (PCA)
    - Understand PCA and its applications in dimensionality reduction.
- Curse of Dimensionality
    - Learn about the challenges and issues related to high-dimensional data.
- Linear Discriminant Analysis (LDA)
    - Study LDA for dimensionality reduction and classification.
- t-SNE
    - Understand t-SNE for visualizing high-dimensional data.
- Bagging
    - Learn about bagging techniques in ensemble learning.
- Boosting and Stacking
    - Study boosting and stacking techniques for improving model performance.
- XGBoost
    - Understand the XGBoost algorithm and its advantages in gradient boosting.

Deep Learning (70% Completed)

- Image Classification with MobileNet
    - Learn to implement image classification using MobileNet architecture.
- Landmark and Object Detection
    - Understand techniques for detecting landmarks and objects in images.
- Non-Max Suppression
    - Study non-max suppression techniques in object detection.
- YOLO Algorithm
    - Learn about the YOLO (You Only Look Once) algorithm for real-time object detection.
- Face Recognition
    - Understand face recognition techniques and applications.
- Siamese Network
    - Study Siamese networks for similarity learning tasks.
- Backpropagation with RNN
    - Understand backpropagation through time in recurrent neural networks (RNN).
- GRU Explained
    - Learn about Gated Recurrent Units (GRU) and their applications in sequence modeling.

VARC (Nearly 50%) - Verbal Ability

- Focus on verbal ability topics, including reading comprehension, grammar, and vocabulary.

Performance Targets

- Weekly Test Score: Aim to achieve a score higher than the average mark of 35.

- Sectional Test Marks: There are Sectional Tests based on Verbal Ability. Strive to score above the average marks.
- Expected Total Marks: Your total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines

- **Machine Learning Course:**
    - If you have completed more than 100% of the ML course, your progress is satisfactory. Continue to refine and apply your knowledge.
    - If less than 100% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.
- **Deep Learning Course:**
    - If you have completed more than 70% of the Deep Learning course, your progress is on track. Keep practicing to solidify your skills.
    - If less than 70% is completed, focus on covering the necessary topics before taking the tests to meet the expectations.
- **VARC - Verbal Ability:**
    - Focus on mastering verbal ability topics to achieve the set targets.

Revision and Practice

- If your average total marks fall below the sum of the averages of Weekly and Sectional Tests, review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems.
- If your marks meet or exceed the target, maintain your current study pace and continue attending sessions regularly to ensure consistent progress and preparation for future assessments.

End of Week Feedback and Expectations

Machine Learning (100% Completed)

- **Expectation:**
    - Understand and apply advanced concepts such as PCA, LDA, bagging, boosting, and XGBoost.
- **Feedback:**
    - **Achieved 100%:**
        - Excellent progress in completing the ML course.
        - Demonstrated proficiency in various machine learning techniques.
        - Continue to apply these skills in real-world scenarios.
    - **Not Achieved 100%:**
        - Focus on completing the remaining topics.
        - Review and practice PCA, LDA, and ensemble learning techniques.

        - Ensure comprehensive understanding of boosting algorithms like XGBoost.

Deep Learning (70% Completed)

- **Expectation:**
    - Understand and implement advanced deep learning techniques such as MobileNet, YOLO, and Siamese networks.
- **Feedback:**
    - **Achieved 70%:**
        - Good progress in completing the Deep Learning course.
        - Demonstrated understanding of complex architectures and algorithms.
        - Continue to practice and refine these skills.
    - **Not Achieved 70%:**
        - Prioritize covering the necessary topics.
        - Review and practice MobileNet, YOLO, and face recognition techniques.
        - Ensure consistent effort to meet the learning targets.

VARC (Nearly 50%) - Verbal Ability

- **Expectation:**
    - Master verbal ability topics, including reading comprehension and grammar.
- **Feedback:**
    - **Achieved 50%:**
        - Good progress in mastering verbal ability skills.
        - Improved performance in reading comprehension and grammar exercises.
        - Continue practicing to further enhance proficiency.
    - **Not Achieved 50%:**
        - Focus on practicing verbal ability exercises.
        - Review and solve additional problems to strengthen understanding.
        - Ensure consistent practice to meet learning targets.
-

MONTH 5

Week 1:

Focused Topics and Expectations

Deep Learning (100% Completed)

- **Master Advanced Topics**: LTSM, Word Embedding in NLP, Attention Models.
- **Implement Deep Learning Projects**: Basic ANN to predict fuel efficiency, Poetry Generation using LTSM and NLP.

Excel and Power BI (~50%)

- **Data Modeling**: Understand how to create relationships between tables.
- **Maps and Introduction to Charts in Power BI**.
- **Data Visualization**: Explore various types of visualizations (e.g., bar charts, line charts, maps) and techniques for effective communication of insights.

Quant (Nearly 35%): Permutations and Combinations

Performance Targets:

- **Weekly Test Score**: Aim to achieve a score higher than the average mark. This Weekly Test is based on Tech.
- **Sectional Test Marks**: This Sectional Test is based on Permutations and Combinations. Strive to score above the average marks.
- **Expected Total Marks**: Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

Deep Learning Course:

- Ensure comprehensive understanding of all topics covered. Aim to complete 100% of the Deep Learning course material.
- If 100% completed, continue practicing to solidify skills.
- If 100% completed, focus on covering necessary topics before tests.

Excel and Power BI Course (50%):

- Master data modeling, DAX, and visualization techniques.

Revision and Practice:

- Review and practice to reinforce learning in both Deep Learning and Power BI.
- Engage in project work to apply theoretical knowledge practically.

End of Week Feedback and Expectations

Deep Learning (100%)

- **Expectation**:
    - Master advanced topics: LTSM, Word Embedding in NLP, Attention Models.
    - Implement Deep Learning projects: Basic ANN to predict fuel efficiency, Poetry Generation using LTSM and NLP.
- **Feedback**:
    - **Achieved 100% of the Course**:
        - Excellent progress in mastering advanced topics.
        - Successfully implemented Deep Learning projects.
        - Continue to practice and apply these skills in real-world scenarios.
    - **Not Achieved 100% of the Course**:
        - Focus on mastering remaining advanced topics.
        - Allocate additional time for project implementation.
        - Review and practice to strengthen understanding.

Excel and Power BI (50%)

- **Expectation**:
    - Understand how to create relationships between tables.
    - Explore maps and charts in Power BI.
    - Learn various data visualization techniques.
- **Feedback**:
    - **Achieved 50% of the Course**:
        - Good progress in data modeling and visualization.
        - Demonstrated understanding of creating relationships between tables.
        - Continue exploring advanced visualization techniques.
    - **Not Achieved 50% of the Course**:
        - Focus on covering remaining topics.
        - Review basics and practice advanced visualization techniques.
        - Allocate additional time to understand data modeling and relationships between tables.

Quant (35%)

- **Expectation**:
    - Practice techniques for Permutations and Combinations.
    - Improve problem-solving skills in these areas.
- **Feedback**:
    - **Achieved 35% of the Course**:
        - Good progress in Permutations and Combinations.
        - Improved problem-solving skills in these areas.
        - Continue practicing to further enhance proficiency.
    - **Not Achieved 35% of the Course**:
        - Prioritize practicing Permutations and Combinations.
        - Review and practice additional problems to strengthen understanding.
        - Ensure consistent effort to meet the learning targets.

Week 2:

Focused Topics and Expectations

Deep Learning (100% Completed)

- **Master Advanced Topics**: CNN (Convolutional Neural Networks), RNN (Recurrent Neural Networks), ANN (Artificial Neural Networks).
- **Consolidate Knowledge**: Through practical implementation and projects.

Excel and Power BI (100%)

- **Tables and Matrices in Power BI**
- **Advanced Visualization in Power BI**

Quant (45%): Probability and Numbers

Performance Targets:

- **Weekly Test Score**: Aim to achieve a score higher than the average mark.
- **Sectional Test Marks**: Strive to score above the average marks. This weekly test is based on Probability.
- **Expected Total Marks**: Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

Deep Learning Course:

- Ensure comprehensive understanding of all topics covered. Aim to complete 100% of the Deep Learning course material.
- If 100% completed, focus on advanced applications and projects.
- If less than 100% completed, prioritize finishing the remaining topics before tests.

Excel and Power BI Course:

- Aim to complete 100% of the course material this week.
- If 100% completed, review and reinforce concepts through practical exercises.
- If less than 100% completed, ensure coverage of essential topics to meet expectations.

Revision and Practice:

- Review and practice to reinforce learning in both Deep Learning and General AI.

- Engage in project work to apply theoretical knowledge practically.

End of Week Feedback and Expectations

Deep Learning (100%)

- **Expectation**:
  - Master advanced topics: CNN, RNN, ANN.
  - Consolidate knowledge through practical implementation and projects.
- **Feedback**:
  - **Achieved 100% of the Course**:
    - Excellent progress in mastering advanced topics.
    - Successfully consolidated knowledge through practical projects.
    - Continue to practice and apply these skills in real-world scenarios.
  - **Not Achieved 100% of the Course**:
    - Focus on mastering remaining advanced topics.
    - Allocate additional time for practical implementation.
    - Review and practice to strengthen understanding.

Excel and Power BI (100%)

- **Expectation**:
  - Understand tables and matrices in Power BI.
  - Learn advanced visualization techniques.
- **Feedback**:
  - **Achieved 100% of the Course**:
    - Good progress in understanding tables, matrices, and advanced visualization.
    - Demonstrated ability to create complex visualizations.
    - Continue exploring advanced features in Power BI.
  - **Not Achieved 100% of the Course**:
    - Focus on covering remaining topics.
    - Review basics and practice advanced visualization techniques.
    - Allocate additional time to understand complex visualizations.

Quant (45%)

- **Expectation**:
  - Practice techniques for Probability and Numbers.
  - Improve problem-solving skills in these areas.
- **Feedback**:
  - **Achieved 45% of the Course**:
    - Good progress in Probability and Numbers.

        - Improved problem-solving skills in these areas.
        - Continue practicing to further enhance proficiency.
    - **Not Achieved 45% of the Course**:
        - Prioritize practicing Probability and Numbers.
        - Review and practice additional problems to strengthen understanding.
        - Ensure consistent effort to meet the learning targets.

Week 3:

Focused Topics and Expectations

General Artificial Intelligence (Gen AI) (50% Completed)

- **Review and Solidify Understanding of**:
    - Introduction to Artificial Intelligence and its Types
    - Basics of Machine Learning (Supervised, Unsupervised, Reinforcement Learning)
    - Key Machine Learning Algorithms (Regression, Classification, Clustering)
    - Deep Learning Fundamentals (Neural Networks, CNN, RNN)
    - Introduction to Natural Language Processing (NLP)
    - Basics of Computer Vision
    - Ethical Considerations in AI

Quant (Nearly 70%): Equations and Sequence and Series

Performance Targets:

- **Weekly Test Score**: Aim to achieve a score higher than the average mark. This weekly test is based on Deep Learning.
- **Sectional Test Marks**: Strive to score above the average marks. Based on Numbers.
- **Expected Total Marks**: Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

General AI Course:

- Aim to complete 100% of the General AI course material.
- Ensure thorough understanding of advanced topics and their applications.

Revision and Practice:

- Review and practice advanced concepts in General AI.
- Begin applying theoretical knowledge to Project 1 effectively.

Additional Strategies for Success:

- Regularly engage in project discussions and seek feedback.
- Stay updated with current AI trends and integrate new insights into project work.

End of Week Feedback and Expectations

General Artificial Intelligence (Gen AI) (50%)

- **Expectation**:
    - Review and solidify understanding of AI fundamentals and applications.
- **Feedback**:
    - **Achieved 50% of the Course**:
        - Good progress in covering essential topics.
        - Demonstrated understanding of AI fundamentals.
        - Continue to explore advanced topics and their practical applications.
    - **Not Achieved 50% of the Course**:
        - Focus on covering remaining essential topics.
        - Review and practice to strengthen understanding of AI fundamentals.
        - Allocate additional time for practical exercises and project work.

Quant (70%)

- **Expectation**:
    - Practice techniques for Equations and Sequence and Series.
    - Improve problem-solving skills in these areas.
- **Feedback**:
    - **Achieved 70% of the Course**:
        - Good progress in Equations and Sequence and Series.
        - Improved problem-solving skills in these areas.
        - Continue practicing to further enhance proficiency.
    - **Not Achieved 70% of the Course**:
        - Prioritize practicing Equations and Sequence and Series.
        - Review and practice additional problems to strengthen understanding.
        - Ensure consistent effort to meet the learning targets.

Week 4:

Focused Topics and Expectations

General AI (100% Completed)

- **Advanced Topics in General AI**
    - Advanced Natural Language Processing (NLP) Techniques
    - Advanced Deep Learning Techniques (Generative Models, Transfer Learning)
    - Reinforcement Learning: Advanced Algorithms and Applications
    - AI Ethics: Bias and Fairness, Transparency and Explainability
    - Deploying AI Models: Techniques and Best Practices
    - Current Trends and Future Directions in AI Research

Project Work: Project 1 (Nearly 50%) (Example: Uber Data Analytics Project)

- **Plan Preparation and Initiation:**
    - Define project objectives, scope, and deliverables.
    - Conduct initial research and gather necessary resources.
    - Create a detailed project plan including timelines and milestones.
    - Begin initial stages of project development.

Performance Targets:

- **Weekly Test Score:** Aim to achieve a score higher than the average mark.
- **Sectional Test Marks:** No specific sectional tests this week, focus on completing the project work and other assignments.
- **Expected Total Marks:** Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

General AI Course:

- If you have completed more than 100% of the General AI course, your progress is satisfactory. Continue to refine and apply your knowledge.
- If less than 100% is completed, prioritize finishing the required topics before attempting the weekly tests to ensure you meet expectations.

Project Work:

- **If Project 1 is Initiated Successfully:**
    - **Remark:** Excellent start to your project. Your objectives, scope, and deliverables are clearly defined. Continue following the project plan and progress through the development stages as scheduled.

- **If Project 1 is Not Initiated Successfully:**
    - **Remark:** Focus on clearly defining the project objectives and scope. Ensure you have all necessary resources and a detailed plan before proceeding. Allocate extra time to get back on track.

Revision and Practice:

- If your average total marks fall below the sum of the averages of Weekly and Sectional Tests: Review and practice the topics you've learned. This includes revisiting difficult concepts and working on additional practice problems.
- If your marks meet or exceed the target: Maintain your current study pace and continue attending sessions regularly to ensure consistent progress and preparation for future assessments.

Additional Activities:

- **Keep Practicing DPPs:** Daily Practice Problems (DPPs) to strengthen your problem-solving skills.
- **Attempt Coding Tests:** Regular coding tests to enhance your programming abilities and prepare for practical applications.

End of Week Feedback and Expectations

General AI (100% Completed):

- **Expectation:**
    - Advanced Natural Language Processing (NLP) Techniques
    - Advanced Deep Learning Techniques (Generative Models, Transfer Learning)
    - Reinforcement Learning: Advanced Algorithms and Applications
    - AI Ethics: Bias and Fairness, Transparency and Explainability
    - Deploying AI Models: Techniques and Best Practices
    - Current Trends and Future Directions in AI Research
- **Feedback:**
    - **Achieved 100% of the Course:**
        - Great progress in General AI advanced topics.
        - Demonstrated proficiency in NLP, deep learning techniques, reinforcement learning, and AI ethics.
        - Shown capability in deploying AI models and understanding current AI research trends.
        - Continue to refine and apply these skills in real-world scenarios.
    - **Not Achieved 100% of the Course:**
        - Focus on covering the remaining General AI topics.
        - Review the advanced concepts and practice their applications.
        - Allocate additional time to ensure thorough understanding and completion of the course.

Project Work: Project 1 (Nearly 50%):

- **Expectation:**
    - Define project objectives, scope, and deliverables.
    - Conduct initial research and gather necessary resources.
    - Create a detailed project plan including timelines and milestones.
    - Begin initial stages of project development.
- **Feedback:**
    - **Initiated Successfully:**
        - Excellent start to your project. Your objectives, scope, and deliverables are clearly defined.
        - Continue following the project plan and progress through the development stages as scheduled.
    - **Not Initiated Successfully:**
        - Focus on clearly defining the project objectives and scope.
        - Ensure you have all necessary resources and a detailed plan before proceeding.
        - Allocate extra time to get back on track.

MONTH 6

Week 1:

Focused Topics and Expectations

1. LRDI (30% Completed):

- **Venn Diagram**
- **Syllogism**

2. Project 1 (100%): Uber Data Analytics Project (Continued)

- **Data Collection:** Collect and preprocess the dataset required for the project.
- **Exploratory Data Analysis (EDA):** Perform EDA to understand the data characteristics and identify any potential issues.
- **Model Selection:** Research and decide on the models and techniques to be used for the project.
- **Implementation:** Start implementing the chosen models and techniques on the dataset.
- **Initial Results:** Evaluate the initial results and make necessary adjustments to the model or approach.

Performance Targets:

- **Weekly Test Score:** Aim to achieve a score higher than the average mark.
- **Sectional Test Marks:** Strive to score above the average marks.
- **Expected Total Marks:** Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

1. LRDI (Logical Reasoning and Data Interpretation):

- **Completion Target:** 30%
- **Guidelines:**
    - **Steady Progress:** Aim for 30% completion.
    - **Regular Practice:** Consistently solve various LRDI problems.
    - **Focus on Weak Areas:** Prioritize topics like Venn Diagrams and Syllogisms.
    - **Mock Tests:** Take periodic mock tests for evaluation.

2. Project 1: Uber Data Analytics Project

- **Completion Target:** 100%
- **Guidelines:**
    - **Data Collection and Preprocessing:** Collect and preprocess the dataset.
    - **Exploratory Data Analysis (EDA):** Perform EDA to understand data characteristics and identify potential issues.
    - **Model Selection:** Research and decide on suitable models and techniques.
    - **Implementation:** Implement chosen models and techniques on the dataset.
    - **Initial Evaluation:** Evaluate initial results, make necessary adjustments to the model or approach.
    - **Tuning and Refinement:** Tune hyperparameters, adjust models based on feedback, and document the process.
    - **Interim Evaluation:** Conduct interim evaluation and refine approach based on results.

Revision and Practice:

- **LRDI:** Regular practice, review concepts, focus on weak areas.
- **Project:** Refine models, document the process, seek feedback.

Additional Strategy for Success:

- **Structured Plan:** Follow your weekly learning plan.
- **Consistent Practice:** Regular problem-solving.
- **Seek Help:** Use resources for challenging topics.

End of Week Feedback and Expectations

LRDI (30% Completed):

- **Expectation:**
  - Venn Diagram
  - Syllogism
- **Feedback:**
  - **Achieved 30% of the Course:**
    - Good progress in Venn Diagram and Syllogism.
    - Demonstrated a solid understanding of the concepts.
    - Continue to practice and apply these skills in various problems.
  - **Not Achieved 30% of the Course:**
    - Focus on covering the remaining topics.
    - Review the basics and practice additional problems.
    - Allocate extra time to ensure thorough understanding and completion of the course.

Project 1 (100%): Uber Data Analytics Project

- **Expectation:**
  - Data Collection: Collect and preprocess the dataset required for the project.
  - Exploratory Data Analysis (EDA): Perform EDA to understand the data characteristics and identify any potential issues.
  - Model Selection: Research and decide on the models and techniques to be used for the project.
  - Implementation: Start implementing the chosen models and techniques on the dataset.
  - Initial Results: Evaluate the initial results and make necessary adjustments to the model or approach.
- **Feedback:**
  - **Initiated Successfully:**
    - Excellent progress in the project. Your data collection, preprocessing, and EDA are on track.
    - Continue following the project plan and implement the chosen models and techniques.
  - **Not Initiated Successfully:**
    - Focus on clearly defining the project objectives and scope.
    - Ensure you have all necessary resources and a detailed plan before proceeding.
    - Allocate extra time to get back on track.

Week 2:

Focused Topics and Expectations

LRDI (60% Completed):

- **Topics:**
    - Calendar and Clocks
    - Number and Letter Series

Project 2: Loan Application Predictor Project (Up to 50%)

- **Objective Definition:** Define the objective of predicting loan application approval based on applicant data.
- **Data Collection:** Gather a dataset containing loan application records with relevant features such as applicant income, credit history, loan amount, etc.
- **Project Plan:** Develop a project plan outlining the tasks, timelines, and milestones.
- **Environment Setup:** Set up the necessary environment and tools for data analysis and model development, including Python libraries such as pandas, scikit-learn, and TensorFlow.

Product Management:

- **Target:** Student should start Product Management and complete >90% of the course content.
- **Topics:**
    - RCA (Root Cause Analysis)
    - Guesstimates
    - Few Projects from the Course

Performance Targets:

- **Weekly Test Score:** Aim to achieve a score higher than the average mark.
- **Sectional Test Marks:** Strive to score above the average marks.
- **Expected Total Marks:** Total score across all tests should exceed the sum of the averages of Weekly and Sectional Tests.

Course Completion Guidelines:

LRDI:

- **If Target (60% Completion) Achieved:**
    - **Feedback:** Excellent progress in LRDI. You have demonstrated a strong grasp of Calendar and Clocks, and Number and Letter Series. Continue practicing to maintain proficiency.
- **If Target Not Achieved:**

    - **Feedback:** Focus on completing the remaining topics to reach the 60% target. Review concepts thoroughly and practice more problems to strengthen understanding. Allocate extra time if necessary to catch up on missed topics.

Project 2: Loan Application Predictor Project:

- **If Target (50% Completion) Achieved:**
    - **Feedback:** Well done on defining project objectives, collecting relevant data, and setting up the project environment. Begin implementing the models and continue to monitor progress closely.
- **If Target Not Achieved:**
    - **Feedback:** Ensure the project objectives are clearly defined and revisit the data collection phase if needed. Review the project plan to identify any delays or challenges and adjust timelines accordingly. Seek assistance or resources to overcome obstacles and maintain momentum in project development.

Product Management:

- **If Target (>90% Completion) Achieved:**
    - **Feedback:** Excellent progress in the Product Management course. You have demonstrated a strong understanding of RCA, Guesstimates, and completed relevant projects. Continue to apply these skills in practical scenarios.
- **If Target Not Achieved:**
    - **Feedback:** Focus on completing the remaining course content to reach the 90% target. Review key concepts and practice more problems to strengthen understanding. Allocate extra time if necessary to catch up on missed topics.

Revision and Practice:

- **LRDI:** Consistent practice and review of concepts, focusing on weak areas.
- **Project:** Continuously refine models and document the process, seek feedback, and adjust as needed.

End of Week Feedback and Expectations

LRDI (60% Completed):

- **Expectation:**
    - Calendar and Clocks
    - Number and Letter Series
- **Feedback:**
    - **Achieved 60% of the Course:**
        - Great progress in Calendar and Clocks, and Number and Letter Series.
        - Demonstrated a solid understanding of the concepts.
        - Continue to practice and apply these skills in various problems.

    - **Not Achieved 60% of the Course:**
        - Focus on covering the remaining topics.
        - Review the basics and practice additional problems.
        - Allocate extra time to ensure thorough understanding and completion of the course.

Project 2: Loan Application Predictor Project (Up to 50%)

- **Expectation:**
    - Objective Definition: Define the objective of predicting loan application approval based on applicant data.
    - Data Collection: Gather a dataset containing loan application records with relevant features.
    - Project Plan: Develop a project plan outlining the tasks, timelines, and milestones.
    - Environment Setup: Set up the necessary environment and tools for data analysis and model development.
- **Feedback:**
    - **Initiated Successfully:**
        - Excellent progress in the project. Your data collection, preprocessing, and environment setup are on track.
        - Continue following the project plan and begin implementing the models.
    - **Not Initiated Successfully:**
        - Focus on clearly defining the project objectives and scope.
        - Ensure you have all necessary resources and a detailed plan before proceeding.
        - Allocate extra time to get back on track.

Product Management (>90% Completion)

- **Expectation:**
    - RCA (Root Cause Analysis)
    - Guesstimates
    - Few Projects from the Course
- **Feedback:**
    - **Achieved >90% of the Course:**
        - Excellent progress in Product Management. You have demonstrated a strong understanding of RCA, Guesstimates, and completed relevant projects.
        - Continue to apply these skills in practical scenarios.
    - **Not Achieved >90% of the Course:**
        - Focus on completing the remaining course content.
        - Review key concepts and practice more problems.
        - Allocate extra time if necessary to catch up on missed topics.

Week 3:

Featured Topics and Expectations

1. **LRDI (100%)**
    - **Featured Topics: Non-verbal Reasoning, Blood Relations**
    - **Focus on mastering Non-verbal Reasoning and Blood Relations.**
    - **Aim to achieve 100% completion with thorough understanding and practice.**
2. **VARC**
    - **Featured Topics: Paragraph Summary**
    - **Aim for 70%-75% completion in mastering Paragraph Summary.**
    - **Practice summarizing and interpreting texts effectively.**
3. **Project 2: Loan Application Predictor Project (100%)**
    - **Featured Topics:**
        - **Data Preprocessing: Handling missing values, encoding categorical variables, feature scaling**
        - **Exploratory Data Analysis (EDA): Understanding data characteristics, identifying patterns, visualizing relationships**
        - **Feature Selection: Using techniques like correlation analysis and feature importance**
        - **Model Selection: Researching algorithms like Logistic Regression, Decision Trees, and Random Forest**
        - **Model Implementation: Implement initial versions of selected models using Scikit-learn, focusing on baseline performance metrics**
        - **Initial Results: Evaluate the performance of baseline models using metrics like accuracy, precision, recall, and F1-score. Identify areas for improvement.**

Performance Targets

- **LRDI:**
    - **Aim to achieve 100% completion in Non-verbal Reasoning and Blood Relations.**
- **VARC:**
    - **Aim for 70%-75% completion in Paragraph Summary.**
- **Project 2:**
    - **Ensure 100% completion of defining project objectives, collecting relevant data, and setting up the project environment.**

Course Completion Guidelines

- **LRDI:**
  - **If Target (100%) Achieved:**
    - **Feedback: Congratulations on mastering Non-verbal Reasoning and Blood Relations. Maintain this level of proficiency through consistent practice.**
  - **If Target Not Achieved:**
    - **Feedback: Focus on completing the remaining topics. Practice diverse problems to strengthen your understanding.**
- **VARC:**
  - **If Target (70%-75% Completion) Achieved:**
    - **Feedback: Well done on achieving a good grasp of Paragraph Summary. Continue practicing to refine your skills further.**
  - **If Target Not Achieved:**
    - **Feedback: Focus on completing the required percentage of VARC topics. Practice additional exercises to enhance comprehension.**
- **Project 2:**
  - **If Target (100% Completion) Achieved:**
    - **Feedback: Well done on defining project objectives and setting up the project environment. Begin implementing models and monitor progress closely.**
  - **If Target Not Achieved:**
    - **Feedback: Ensure project objectives are clear. Review the plan to identify any delays and adjust timelines accordingly.**

Revision and Practice

- **Review all completed topics and revisit areas of difficulty.**
- **Practice additional problems and projects to strengthen understanding.**

End of Week Feedback and Expectations

1. **LRDI (100%):**
   - **Expectation:**
     - **Master Non-verbal Reasoning and Blood Relations.**
   - **Feedback if Achieved 100%:**
     - **Congratulations on mastering Non-verbal Reasoning and Blood Relations. Maintain proficiency through regular practice.**
   - **Feedback if Not Achieved 100%:**
     - **Focus on completing the remaining topics to achieve 100% mastery. Practice diverse problems for comprehensive understanding.**
2. **VARC:**
   - **Expectation:**
     - **Achieve 70%-75% completion in Paragraph Summary.**

    - **Feedback if Achieved 70%-75%:**
        - **Well done on grasping Paragraph Summary. Continue practicing to enhance skills further.**
    - **Feedback if Not Achieved 70%-75%:**
        - **Focus on completing the required percentage of VARC topics. Practice additional exercises to improve summarization abilities.**
3. **Project 2: Loan Application Predictor Project (100%):**
    - **Expectation:**
        - **Complete data preprocessing, exploratory data analysis (EDA), feature selection, model selection, and initial model implementation.**
    - **Feedback if Achieved 100%:**
        - **Congratulations on defining project objectives, collecting data, and setting up the project. Begin model implementation and monitor progress closely.**
    - **Feedback if Not Achieved 100%:**
        - **Ensure project objectives are clear. Review data collection and adjust timelines if needed to maintain momentum.**

Week 4:

Featured Topics and Expectations

1. **VARC (100%): Parajumbles**
    - Focus on mastering Parajumbles.
    - Practice rearranging sentences effectively.
    - Enhance comprehension and logical sequencing skills.
2. **Personality Development**
    - Attend GD sessions and communication enhancement sessions.
    - Work on improving communication skills and overall personality development.
3. **Interviews**
    - Attend Buddy interview and Mentor interview sessions.
    - Identify and work on weaknesses highlighted during the interviews.
4. **Coding Tests**
    - Regularly attempt coding tests to improve coding skills and problem-solving abilities.
5. **Quant (100%)**
    - Coordinate Geometry
    - Trigonometry
    - Functions and Graphs
    - LOGS (ILS)

Performance Targets

- **VARC (Parajumbles):**
    - Aim for 100% completion in mastering Parajumbles.
- **Personality Development:**
    - Actively participate and engage in GD and communication sessions.
- **Interviews:**
    - Gain valuable feedback from Buddy and Mentor interviews to improve interview skills.
- **Coding Tests:**
    - Regularly attempt coding tests to enhance coding proficiency.
- **Quant:**
    - Achieve 100% completion in all specified topics.

Course Completion Guidelines

- **VARC (Parajumbles):**
    - If Target (100% Completion) Achieved:
        - Feedback: Well done on mastering Parajumbles. Continue practicing to refine your skills further.
    - If Target Not Achieved:
        - Feedback: Focus on completing the required percentage of VARC topics. Practice additional exercises to enhance comprehension.
- **Quant:**
    - Ensure completion of Coordinate Geometry, Trigonometry, Functions and Graphs, and LOGS (ILS) topics.

Revision and Practice

- Review all completed topics and concepts.
- Practice additional problems to reinforce understanding and skills.

End of Week Feedback and Expectations

1. **VARC (Parajumbles):**
    - **Expectation:**
        - Master Parajumbles effectively.
    - **Feedback if Achieved 100%:**
        - Well done on mastering Parajumbles. Continue practicing to maintain proficiency.
    - **Feedback if Not Achieved 100%:**
        - Focus on completing Parajumbles topics. Practice additional exercises to improve comprehension and sequencing skills.
2. **Personality Development:**
    - **Expectation:**

        - Actively participate in GD and communication sessions.
    - **Feedback:**
        - Implement feedback received to enhance communication skills and overall personality development.
3. **Interviews:**
    - **Expectation:**
        - Gain insights from Buddy and Mentor interviews.
    - **Feedback:**
        - Work on identified weaknesses to improve interview performance.
4. **Coding Tests:**
    - **Expectation:**
        - Regularly attempt coding tests.
    - **Feedback:**
        - Use results to identify areas for improvement in coding skills and problem-solving abilities.
5. **Quant:**
    - **Expectation:**
        - Achieve 100% completion in Quant topics.
    - **Feedback:**
        - Ensure all topics are covered thoroughly to solidify understanding and skills.

Materials to practice:

Coding(DSA): https://leetcode.com/studyplan/top-interview-150/

DSA: https://www.youtube.com/playlist?list=PLUcsbZa0qzu3yNzzAxgvSgRobdUUJvz7p

SQL: https://leetcode.com/studyplan/top-sql-50/

Python: https://www.hackerrank.com/domains/python

Pandas Coding: https://leetcode.com/studyplan/introduction-to-pandas/

Binary Search Questions: https://leetcode.com/studyplan/binary-search/

Uber Data analytics project:
https://learn.myanalyticsschool.com/s/courses/6421e90ce4b073166f2958c7/take

Loan Application predictor project:
https://learn.myanalyticsschool.com/s/courses/6421e524e4b0105fc4bf9d78/take