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# Data Analytics Process

Real-Life Application Scenario Case Study / PPT

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**Topic:** - Data Analytics in Gardening and Plant Care

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## Data Analytics in Gardening and Plant Care

**Description:** Data analytics plays a silent and important role in making a decision, as when it comes to a trending garden, fostering a healthy garden environment, and optimization of plant care. As, taking into consideration factors like growth patterns, climate, soil type, fertilization, sun exposure, water needs, and so on this all factors should be taken into consideration for healthy gardening and its plant care for this the gardener should have access to the database for detailing optimal plant choices. By, accessing the database the gardener can get insights by analyzing data on pest management tactics, pruning procedures, fertilizer schedules, and plant maintenance. Scientists, professional guidance, and other enthusiasts' experiences can all teach gardeners. This information helps reduce the likelihood of illnesses or pests, improve overall plant health, and put into practice efficient care techniques.

**Plan:** Deciding to cultivate the various plant species in a garden that involves outlining the objectives - Plant Varieties, garden layout, sunlight exposure, watering schedules, and landscaping preferences.

**Prepare:** First of all will need to do vast research on different types of plants from various sources like online websites, Wikipedia, etc. Later on, needs to gather a large amount of data on various plant species from which kingdom and family the plant belongs, the growth patterns of various plants, the soil requirements and the water needs as well as the climate.

**Process:** When choosing plants for a garden, a detailed evaluation of each species entails taking into account a number of important considerations. In order to guarantee optimal growth, it is important to comprehend growth rates, bloom times for regular flowering, pest resistance to ward off infestations, and compatibility with local soil and temperature conditions. Furthermore, by examining data related to plant management, proactive care plans can be enabled by learning about possible health problems and trimming schedules. Through a thorough analysis of these many data points, gardeners are able to make well-informed judgments, ensuring that the plant species they have chosen are compatible with both the circumstances of the garden and their capacity for cultivation, leading to stronger and more robust plant growth.

**Analyze:** Having access to gardening resources such as manuals, professional blogs, and advice from experienced gardeners is really helpful. This entails assessing advice on fertilizer strategies, planting schedules, pest control measures, and garden health in general. By examining all of the comments together, we may get a thorough grasp of gardening best practices and useful advice on how to establish, care for, and preserve the health of the garden. These resources, enhanced by the knowledge and insights of experts and enthusiasts in gardening, greatly aid in making well-informed decisions and promote a more vibrant and healthy garden environment.

**Share:** Interacting with gardening communities, participating in local horticultural groups, and consulting with botanists and other gardening enthusiasts to provide insightful advice based on their varied experiences. People who actively participate in these groups have access to a multitude of useful information and life experiences. Engaging with neighborhood associations facilitates the sharing of area-specific ideas, and consulting with specialists such as botanists and experienced gardeners yields customized suggestions for a range of gardening difficulties. These exchanges provide a wide range of viewpoints, encouraging a more profound comprehension of gardening methods, creative approaches, and original solutions that enhance the gardening experience.

**Act:** After you have considered and combined all of the information you have collected and your own tastes, the next stage is to plan and maintain your garden. This means taking great care to choose and care for plant kinds that are best adapted to your region's climate and growing environment. You create a garden that not only thrives but also speaks to your gardening goals when you match your selections with the unique requirements of your area and your personal gardening goals. With careful design and upkeep, you can be confident that your garden will become a well-balanced collection of plants that are suited to your climate and your own gardening goals.

**Results:** The result of these efforts is an exquisitely maintained garden that represents the highest standards of plant health, a wide variety of species, and a visually beautiful setting. This result is evidence of the inadvertent application of data analytics throughout the entire gardening process. The careful application of learned lessons guarantees the plants' vitality and health, creating an atmosphere in which every species flourishes. A carefully chosen variety of plants, carefully matched to the climate and tastes of the owner, results in a garden that is not only healthy but also aesthetically pleasing. This accomplishment, which at first glance appears natural and intuitive, is actually the product of a purposeful integration of data analytics, leading to a garden that harmoniously blends beauty and utility.

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