**Predicting Plant Growth Stages with Environmental and Management Data Using Power BI**

Accurate forecasting of the growth stages of plants is essential for enhancing productivity and effective use of resources in agriculture. This study makes use of Power BI to combine (and thereby study) the effects of environmental factors (e.g., temperature, humidity, soil moisture, and light levels) and management practices (e.g., irrigation schedules, fertilization, and crop rotation) on the studied plant’s growth. Through the use of data modeling, machine learning integration, and real-time data display, Power BI can also show forecasts about plant development. The platform will improve decision-making for farmers and agronomists, thereby predicting yield outcomes, minimizing resource use, and improving sustainable farming practices. The study demonstrates the capabilities that business intelligence tools can bring to modern precision agriculture and offers a scalable solution for developing a forecast of growth stages.