

1. The rest of the thesis is organized in the following way:

Chapter 1 introduces the research, the background of the research, the definition of the problem, the objectives and the contributions of the thesis. It gives an overview of the research situation and the significance of explainable deep learning in plant disease classification.

ده شبنر 2 و ليس 1

2. Thesis Contribution اعاده كتابه

كتاب علميه بناء على ما سوف يتم استخدامه

3. Chapter 1 introduces the research, the background of the research, the definition of the problem, the objectives and the contributions of the thesis. It gives an overview of the research situation and the significance of explainable deep learning in plant disease classification.

Chapter 2 discusses the theoretical background and the work that is pertinent to this research are in. It discusses machine learning and deep learning methods of plant disease sensing, essential concepts of explainable artificial intelligence (XAI), attention techniques, and prior research in the area.

ازای شبنرین هیشرحوا نفس الحاجة

4. of features and preprocessing methods can greatly influence the performance of ML models [6].

ازای 6 وبعدين 3 و 4

ترتيب المراجع

5. Figure 5 Deep Learning pipeline for plant disease detection

غير واضحه يتم اعاده رسمها

6. background حذف كل المعادلات في جزء

evaluation metrics فقط معادلات

7. Explainable Artificial Intelligence (XAI)

زازی بعده

2.5 Attention Mechanisms in Deep Learning

السكشن ده قبله

8 Equation 10 Precision

Equation 9 Accuracy

Equation 10 Precision

Equation 11 Recal

دول ايه؟؟؟؟؟؟

فین المراجع بتاعت المعادلات

9.[15] Learn AI. (2024, July 22). Grad-CAM (gradient-weighted class activation mapping). Medium.

ده لينك يتحط لينك

9. Figure 13 Proposed Approach

يتم اعادة رسمها وعمل رسمه زى البيبرات الاخرى AIمرسومه ب

10. accuracyيكتب فقط قيمه key findingsجزء

Table 1فى