ACORD TEMA DE LICENTA

Numele şi prenumele studentului: Baciu Ioana

Specializarea: informatica in limba romana

Promotia: 2021-2024

Numele şi prenumele coordonatorului ştiinţific: Diosan Silvia Laura

Domeniul lucrării: Inteligenta Artificiala

Titlul lucrării: Breast Cancer Detection using CNN

Descrierea temei lucrării de licenţă:

The thesis aims to determine the accuracy and efficiency of detecting breast cancer in three-dimensional mammogram, knows as tomosynthesis, of various patients using GoogLeNet for image classification and EfficientDet for object detection.

The model is trained on the Breast-Cancer-Screening-DBT, containing a vast number of subjects, of which 869 have been selected for this thesis, 500 showing no signs of cancer, 280 having suspicions of cancer, 42 having benign tumors, and the rest 47 having cancer.

Referinte bibliografice:

1. Naji, M. A., El Filali, S., Aarika, K., Benlahmar, E. H., Abdelouhahid, R. A., & Debauche, O. (2021). Machine learning algorithms for breast cancer prediction and diagnosis. *Procedia Computer Science*, *191*, 487-492.
2. Tan, M., Pang, R., & Le, Q. V. (2020). Efficientdet: Scalable and efficient object detection. In *Proceedings of the IEEE/CVF conference on computer vision and pattern recognition* (pp. 10781-10790).

3. R. Alake(2020), Deep Learning: GoogLeNet Explained. In *Towards Data Science*

    https://towardsdatascience.com/deep-learning-googlenet-explained-de8861c82765

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Semnătura studentului,