Originality report

COURSE NAME
Internship/SDP-Win-2024-25

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1 of 16 passages

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Submitted in partial fulfillment for the **award of the degree of**

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Submitted in partial fulfillment for award of the degree of. BACHELOR OF TECHNOLOGY. Session 2008 - 2012. Submitted To: Submitted By: Student's Name. Student ID.

Submitted in partial fulfillment for award of the degree of ... http://www.gecj.ac.in/Download/Project%20Report%20Format%20CS.pdf

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2 of 16 passages

Student passage FLAGGED

the trained model was deployed through a lightweight **Flask web application** that **allows** clinicians **to upload chest X-ray images and receive real-time** TB **predictions**

Top web match

Web application **The Flask web application allows** users **to upload chest X-ray images and receive real-time predictions** on whether pneumonia is detected.

Alikhizar142/Pneumonia_Detection - GitHub https://github.com/Alikhizar142/Pneumonia_Detection

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3 of 16 passages

Student passage FLAGGED

3. A Better **Densenet Deep Neural Network Model for Tuberculosis Detection** from **Chest X-Ray Images**

Top web match

An Improved **Densenet Deep Neural Network Model for Tuberculosis Detection** Using **Chest X-Ray Images**. Abstract: Tuberculosis (TB) is a highly ...

An Improved Densenet Deep Neural Network Model ... - IEEE Xplore https://ieeexplore.ieee.org/document/10108980/

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4 of 16 passages

Student passage FLAGGED

The proposed **model** combines **the Convolutional Block Attention Module (CBAM**) with **the Wide Dense Net (WDnet) to capture** informative **spatial and contextual information** from CXR **images**

Top web match

The model is based on **the Convolutional Block Attention Module (CBAM**) and **the Wide Dense Net (WDnet**) architecture, which has been designed **to** effectively **capture spatial and contextual information** in…

An Improved Densenet Deep Neural Network Model ... - IEEE Xplore https://ieeexplore.ieee.org/document/10108980/

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5 of 16 passages

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…the study indicate that CBAMWDnet surpasses traditional methods with **a** high **accuracy of 98.80%, sensitivity of 94.28%, precision of 98.50%, specificity of 95.7%, and F1 score of 96.35**

Top web match

When tested on **a** comprehensive dataset, their model surpassed several leading models, achieving an **accuracy of 98.80%, sensitivity of 94.28%, precision of 98.50%, specificity of 95.7%, and** an **F1 score**…

This is a title - EAI Endorsed Transactions https://publications.eai.eu/index.php/phat/article/download/5543/3069

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6 of 16 passages

Student passage FLAGGED

5. **Deep Learning Models for Tuberculosis Detection from Chest X-ray Images**

Top web match

Deep Learning Models for Tuberculosis Detection from Chest X-ray Images. Abstract: This paper explores the usefulness of transfer learning on medical imaging ...

Deep Learning Models for Tuberculosis Detection from Chest X-ray ... http://ieeexplore.ieee.org/document/8798798/

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7 of 16 passages

Student passage FLAGGED

Experimental results showed **that the proposed approach** is **superior** to conventional transfer learning methods, with **higher accuracy and stability**. The model was evaluated on two popular datasets, the…

Top web match

The **experimental results** demonstrate **that the proposed approach** achieves **superior** prediction performance in the case of small sample sizes, exhibiting **higher accuracy and stability** compared to…

Comparison-Transfer Learning Based State-of-Health Estimation for ... https://www.researchgate.net/publication/377996707_Comparison-Transfer_Learning_Based_State-of-Health_Estimation_for_Lithium-Ion_Battery

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8 of 16 passages

Student passage FLAGGED

The model was **evaluated on two** popular **datasets**, the **Shenzhen and Montgomery** datasets, **and** obtained competitive **performance compared to the**

Top web match

The proposed **model** is **evaluated on two** public chest X-ray **datasets: Shenzhen and Montgomery; and** achieves superior **performance compared to the** state-of-art segmentation methods. Specifically, it…

(PDF) Lung Segmentation with Lightweight Convolutional Attention ... https://www.researchgate.net/publication/390232824_Lung_Segmentation_with_Lightweight_Convolutional_Attention_Residual_U-Net

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9 of 16 passages

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8. Accurate **Tuberculosis Detection Using Chest X-Ray with Deep Learning, Segmentation, and Visualization**

Top web match

Reliable **Tuberculosis Detection Using Chest X-Ray With Deep Learning, Segmentation and Visualization**. Abstract: Tuberculosis (TB) is a chronic ...

Reliable Tuberculosis Detection Using Chest X-Ray With Deep ... https://ieeexplore.ieee.org/document/9224622/

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10 of 16 passages

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Images were resized to 224×224 pixels in order **to meet the input** requirement **of** DenseNet121. Pixel values were scaled to the [0, 1]

Top web match

Resizing: **Images were resized to 224×224 pixels to meet the input** size requirements **of** the models. Grayscale to RGB Conversion: The grayscale chest X-ray images were converted into RGB format to align…

Efficient Classification of Pulmonary Pneumonia and Tuberculosis ... https://www.medrxiv.org/content/10.1101/2024.12.31.24319820v1.full-text

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11 of 16 passages

Student passage FLAGGED

Resizing all images to 224x224 pixels to be compatible with DenseNet121's **input size**.Scaling pixel values by rescale=1.0 / 255 to scale them…

Top web match

For the product image dataset, the images were pre-processed to conform to the input requirements of the VGG19 model. This involved **resizing all images to 224x224 pixels to** match the **input size**…

Original and Resized Image (224x224 pixels). - ResearchGate https://www.researchgate.net/figure/Original-and-Resized-Image-224x224-pixels_fig3_383052895

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12 of 16 passages

Student passage FLAGGED

DenseNet connects each layer to every other layer in a feed-forward manner, improving parameter efficiency and feature diversity.

Top web match

Pros Improved feature reuse: **DenseNet connects each layer to every other layer in a feed-forward** fashion. This encourages feature reuse, leading to more efficient and compact models.

DenseNet - Iterate.ai https://www.iterate.ai/ai-glossary/densenet-convolutional-networks

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13 of 16 passages

Student passage FLAGGED

[x0, x1, … , $x\ell$−1]: concatenation of feature maps from previous layers

Top web match

Con- sidering x0,x1 …,xl−1 as input: where [**x0,x1 …,xl−1**] denotes the **concatenation of feature maps** produced **from previous layers**, respectively.

ChoiceNet: CNN learning through choice of multiple feature map ... https://d-nb.info/1243383895/34

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14 of 16 passages

Student passage CITED

y**: true label (0 or 1**)$\hat{y}$: predicted probabilityThe function penalizes incorrect predictions more harshly as…

Top web match

Loss = -(y * log(p) + (1 — y) * log(1 — p)). where **y** is the **true label (0 or 1**); p is the predicted probability of the class. For multi-label classification with multiple classes, the binary…

Multi-label classification - Medium https://medium.com/@kitkat73275/multi-label-classification-8d8ae55e8373

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15 of 16 passages

Student passage FLAGGED

This report contains **precision, recall, F1-score, and support for each class**.

Top web match

Classification Report: **This** detailed **report** provided metrics such as **Precision, Recall, F1-score, and Support for each class**.

Efficient Classification of Pulmonary Pneumonia and Tuberculosis ... https://www.medrxiv.org/content/10.1101/2024.12.31.24319820v1.full-text

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16 of 16 passages

Student passage FLAGGED

…the predicted positives, how many were they actually correct?Recall: **Of the actual positives, how many did the model** pick up?F1-score: Harmonic mean of precision and recall. A…

Top web match

It answers the question, “**Of** all **the actual positives, how many did the model** correctly identify?” F1 Score: The harmonic mean of precision and recall. It balances the two metrics into a single…

Understanding Precision, Recall, and F1 Score Metrics - Medium https://medium.com/@piyushkashyap045/understanding-precision-recall-and-f1-score-metrics-ea219b908093