```
1  !git clone https://github.com/fxlmer/AJPom_cancer
```

```
Cloning into 'AJPom_cancer'...
remote: Enumerating objects: 73, done.
remote: Counting objects: 100% (73/73), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 217 (delta 56), reused 52 (delta 38), pack-reused 144
Receiving objects: 100% (217/217), 351.85 MiB | 47.47 MiB/s, done.
Resolving deltas: 100% (122/122), done.
Checking out files: 100% (30/30), done.
```

```
1  !git clone https://github.com/EvilPickle-PCSHSPT/AJPom_cancer_data
```

```
Cloning into 'AJPom_cancer_data'...
remote: Enumerating objects: 51, done.
remote: Counting objects: 100% (51/51), done.
remote: Compressing objects: 100% (25/25), done.
remote: Total 1854 (delta 26), reused 51 (delta 26), pack-reused 1803
Receiving objects: 100% (1854/1854), 1.73 GiB | 52.19 MiB/s, done.
Resolving deltas: 100% (82/82), done.
Checking out files: 100% (1426/1426), done.
```

Import

```
1  import tensorflow as tf
2  from google.colab import files
3  from Ex2_DenseNet121_nmVSpmd_utils import *
```

```
1  tf.compat.v1.disable_eager_execution()
```

```
1  test_model = tf.keras.models.load_model('/content/AJPom_cancer/Ex/Ex2_nm
```

```
1  # test_model.summary()
```

Grad-CAM

```
1  last_conv2d = 'conv5_block16_2_conv'
```

Normal

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/nor
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```
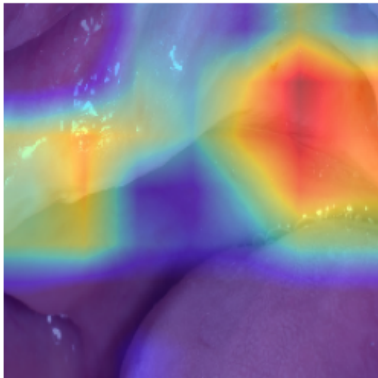
```
/usr/local/lib/python3.7/dist-packages/tensorflow/python/keras/engine/trainin
  warnings.warn('`Model.state_updates` will be removed in a future version. '
Model prediction:
        normal              (0)      with probability 0.833
        pmd                 (1)      with probability 0.167
Explanation for 'normal'
```
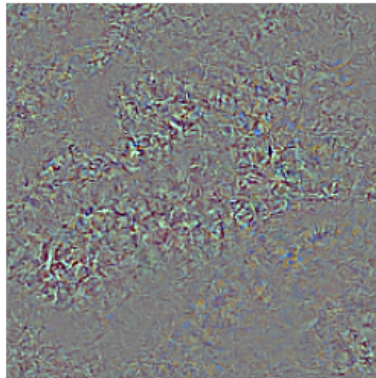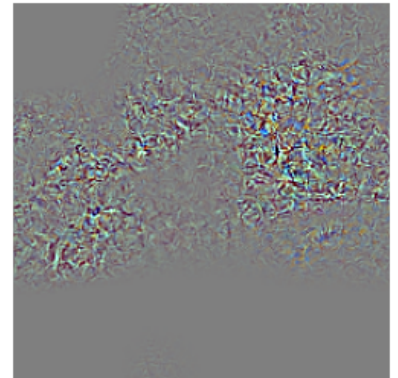


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```
Model prediction:
        normal              (0)      with probability 0.985
        pmd                 (1)      with probability 0.015
Explanation for 'normal'
```
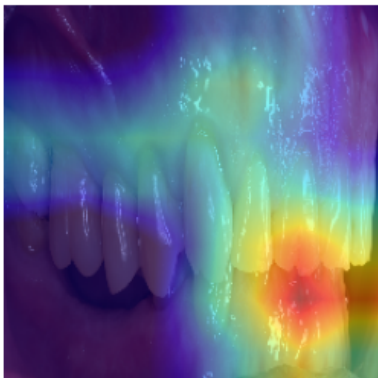


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Model prediction:
       normal          (0)      with probability 0.997
       pmd             (1)      with probability 0.003
Explanation for 'normal'
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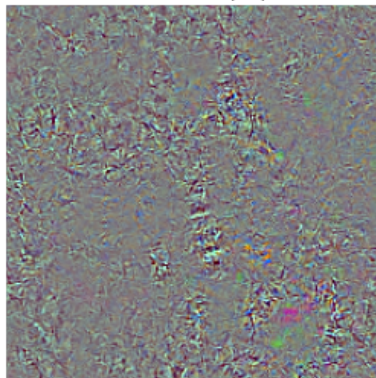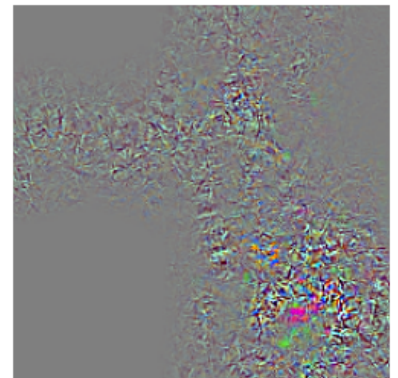
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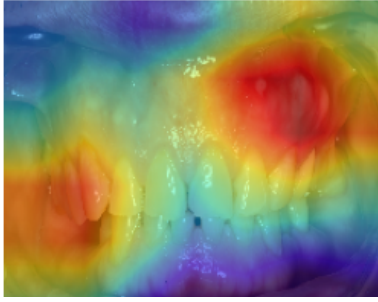
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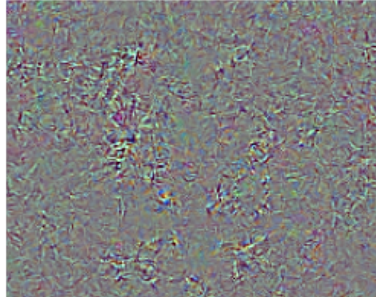
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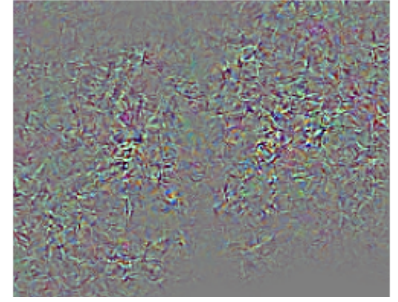
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https://colab.research.google.com/drive/1iMpZ564PUd99BljI3JV7EtTfOiJyv3uV#printMode=true   14/53

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PMD

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1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
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```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```

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Ex2_DenseNet121_nmVSpmd_All_Grad-CAM.ipynb - Colaboratory

```
1   test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2   gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1   test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2   gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

https://colab.research.google.com/drive/1iMpZ564PUd99BljI3JV7EtTfOiJyv3uV#printMode=true
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```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, te
```

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Ex2_DenseNet121_nmVSpmd_All_Grad-CAM.ipynb - Colaboratory

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```


https://colab.research.google.com/drive/1iMpZ564PUd99BljI3JV7EtTfOiJyv3uV#printMode=true   48/53

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
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```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```

```
1  test_img = '/content/AJPom_cancer_data/nmVSpmd/split_images_clf/test/pmd
2  gradcam, gb, guided_gradcam = compute_saliency(test_model, test_model, t
```