Results in tables

```
In [1]: import pandas as pd
        import os
        from collections import defaultdict
         import pandas as pd
        import numpy as np
In [2]: results_folder = "results"
        model_types = ["cnn14_logstft", "cnn14_logmel"]
        method_names = ["saliency", "gradcam", "lime", "shap"]
        exp_types_mapping = {
    "cnn14_logstft": ["clean"],
    "cnn14_logmel": ["clean", "white", "room", "horse"]
        folder_for_tables = "csvs"
In [3]: csv_files = []
        for model in model_types:
            for method in method names:
                 for exp in exp_types_mapping[model]:
                    dir_path = os.path.join(results_folder,
                                             model.
                                             f"{method} {exp}",
                                             folder_for_tables)
                     if not os.path.isdir(dir_path):
                         continue
                     for fname in os.listdir(dir_path):
                        if fname.endswith(".csv"):
                            csv_files.append(os.path.join(dir_path, fname))
In [4]: experiment_results = {m: {} for m in model_types}
         for fpath in csv_files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            exp_name = f"{method}_{exp}"
            mask_name = os.path.splitext(parts[-1])[0]
            df = pd.read_csv(fpath)
            metrics = df.columns.difference(["sample", "is_correct"])
            means = df[metrics].mean()
            experiment_results[model_type].setdefault(exp_name, {})[mask_name] = means
In [5]: for model, exps in experiment_results.items():
            for exp_name, mask_dict in exps.items():
                experiment_results[model][exp_name] = pd.DataFrame(mask_dict).T
In [6]: experiment_results_true = {m: {} for m in model_types}
         experiment_results_false = {m: {} for m in model_types}
        for fpath in csv files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            exp_name = f"{method}_{exp}"
            mask_name = os.path.splitext(parts[-1])[0]
            df = pd.read csv(fpath)
            metrics = df.columns.difference(["sample", "is_correct"])
            means_t = df[df["is_correct"] == True][metrics].mean()
            means_f = df[df["is_correct"] == False][metrics].mean()
            experiment_results_true[model_type].setdefault(exp_name, {})[mask_name] = means_t
            experiment_results_false[model_type].setdefault(exp_name, {})[mask_name] = means_f
         for m in model types:
            for exp_name, mask_dict in experiment_results_true[m].items():
                experiment_results_true[m][exp_name] = pd.DataFrame(mask_dict).T
            for exp_name, mask_dict in experiment_results_false[m].items():
                experiment_results_false[m][exp_name] = pd.DataFrame(mask_dict).T
In [7]: mask_experiment_results = {m: {} for m in model_types}
         for fpath in csv_files:
            parts = fpath.split(os.sep)
            model_type = parts[parts.index(results_folder) + 1]
            method, exp = parts[parts.index(results_folder) + 2].split("_", 1)
            mask_name = os.path.splitext(parts[-1])[0]
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df = pd.read_csv(fpath)
             metrics = df.columns.difference(["sample", "is_correct"])
             means = df[metrics].mean()
             mask experiment results[model type]\
               .setdefault(exp, {})\
               .setdefault(mask_name, {})[method] = means
         for model, exps in mask_experiment_results.items():
             for exp type, masks in exps.items():
                 for mask name, methods dict in masks.items():
                     mask_experiment_results[model][exp_type][mask_name] = \
                         pd.DataFrame(methods_dict).T
 In [8]: column_order = ["FF", "AI", "AG", "FidIn", "SPS", "AD", "COMP"]
         invert_metrics = {"AD", "COMP"}
diff_color_cols = {"SPS", "COMP"}
 In [9]: def highlight_extremes(col: pd.Series):
             is_invert = col.name in invert_metrics
             use_blue = col.name in diff_color_cols
             mx, mn = col.max(), col.min()
ctulos = []
                       = []
             stvles
             for v in col:
                 if use_blue:
                     if is invert:
                         if v == mn: styles.append("background-color: lightblue; font-weight: bold")
                         elif v == mx: styles.append("background-color: lightsteelblue; font-weight: bold")
                          else: styles.append("")
                          if v == mx: styles.append("background-color: lightblue; font-weight: bold")
                          elif v == mn: styles.append("background-color: lightsteelblue; font-weight: bold")
                         else: styles.append("")
                 else:
                      if is invert:
                         if v == mn: styles.append("background-color: lightgreen; font-weight: bold")
                          elif v == mx: styles.append("background-color: lightcoral; font-weight: bold")
                         else: styles.append("")
                      else:
                         if v == mx: styles.append("background-color: lightgreen; font-weight: bold")
                          elif v == mn: styles.append("background-color: lightcoral; font-weight: bold")
                         else: styles.append("")
             return styles
In [10]: def display_experiment_results(results):
             def _show(df, title=None):
                 df = df.reindex(columns=[c for c in column_order if c in df.columns])
                  styled = df.style.apply(highlight_extremes, axis=0)
                     print(f"\n--- {title} ---")
                 display(styled)
             if isinstance(results, pd.DataFrame):
                 _show(results)
                 return
             if all(isinstance(v, pd.DataFrame) for v in results.values()):
                  for name, df in results.items():
                     _show(df, title=name)
                 return
             for model, exps in results.items():
                 print(f"\n===== MODEL: {model} =====")
                  for name, df in exps.items():
                     _show(df, title=name)
In [11]: def display_summary_table(df, title=None, drop_best_mask_col=True):
             method_order = ["saliency", "gradcam", "lime", "shap"]
             if "method" in df.columns:
                 df = df.set_index("method")
             if "best mask" in df.columns:
                 df.index = [f"{m}_{bm}" for m, bm in zip(df.index, df["best_mask"])]
                 if drop_best_mask_col:
                     df = df.drop(columns=["best_mask"])
             ordered idx = []
             for m in method_order:
                 ordered_idx.extend([idx for idx in df.index if idx.split("_", 1)[0] == m])
             ordered_idx = [idx for idx in ordered_idx if idx in df.index]
             if ordered_idx:
                 df = df.loc[ordered_idx]
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df = df.reindex(columns=[c for c in column_order if c in df.columns])

styled = df.style.apply(highlight_extremes, axis=0)

if title:
    print(f"\n=== {title} ===")
    display(styled)
```

Mel model - clean

In [12]: display_experiment_results(experiment_results["cnn14_logmel"]["saliency_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.923509	17.000000	0.010820	0.660000	0.173750	34.228729	3.364614
topK_30_pos	0.924342	0.000000	0.000000	0.015000	0.700006	98.380550	9.171495
minmax_pos	0.765816	0.250000	0.049572	0.087500	0.789568	94.036667	9.025774
topK_5_pos	0.760572	0.000000	0.000000	0.022500	0.949973	97.641902	7.380256
pos_thresh_50	0.034041	0.250000	0.173731	0.017500	0.998818	97.718493	3.126737
topK_50	0.925488	0.000000	0.000000	0.020000	0.500000	98.354752	9.682342
pos_thresh_25	0.266565	0.500000	0.321346	0.025000	0.990407	97.161012	5.499278
bin	0.925405	0.000000	0.000000	0.020000	0.501437	98.364178	9.679418
minmax	0.865400	3.750000	3.145995	0.270000	0.038238	77.512300	10.372001
topK_5	0.760572	0.000000	0.000000	0.022500	0.949973	97.641902	7.380256
topK_30	0.924342	0.000000	0.000000	0.015000	0.700006	98.380550	9.171495
sigmoid	0.494250	3.500000	1.586628	0.705000	0.000435	38.663598	10.375488
sigmoid_pos	0.459911	2.500000	1.171660	0.677500	0.000218	41.395925	10.375489
pos_thresh_75	0.004156	0.000000	0.000000	0.030000	0.998694	97.389923	1.330769

In [13]: display_experiment_results(experiment_results["cnn14_logmel"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.620931	11.750000	0.986515	0.652500	0.376861	38.971917	7.311441
topK_30_pos	0.362777	8.000000	0.610826	0.445000	0.594143	60.972215	7.798626
minmax_pos	0.431486	0.750000	0.675307	0.362500	0.396158	70.565552	9.305825
topK_5_pos	0.079183	3.250000	0.000789	0.140000	0.889483	88.374592	6.940699
pos_thresh_50	0.366132	4.250000	1.610246	0.462500	0.539787	60.367838	8.580185
topK_50	0.525585	4.500000	2.390889	0.547500	0.499100	50.501074	9.684130
pos_thresh_25	0.599464	12.250000	2.903764	0.685000	0.347608	37.228447	7.528186
bin	0.718901	19.500000	2.312055	0.782500	0.195505	24.363625	4.918478
minmax	0.513961	1.250000	0.771900	0.392500	0.335331	66.672894	10.150634
topK_5	0.030628	0.000000	0.000000	0.095000	0.948803	93.808333	7.403008
topK_30	0.273394	2.250000	0.820703	0.352500	0.698777	71.267326	9.175542
sigmoid	0.503142	2.000000	0.972570	0.677500	0.026291	41.579207	10.373997
sigmoid_pos	0.509011	2.750000	1.287992	0.672500	0.021327	41.113377	9.803656
pos_thresh_75	0.158799	0.250000	0.219627	0.220000	0.782398	83.862255	7.872705

In [14]: display_experiment_results(experiment_results["cnn14_logmel"]["lime_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.827086	13.500000	5.598555	0.750000	0.461311	30.218063	9.410670
topK_30_pos	0.623726	10.000000	4.870080	0.542500	0.674179	49.493281	9.251675
minmax_pos	0.757147	4.000000	1.739817	0.437500	0.547565	60.697763	9.736422
topK_5_pos	0.159315	2.000000	1.222972	0.305000	0.913795	72.973278	7.872777
pos_thresh_50	0.486153	3.000000	1.786661	0.472500	0.748973	57.984101	8.786603
topK_50	0.825345	13.750000	6.322732	0.740000	0.476548	31.117691	9.727269
pos_thresh_25	0.802991	9.750000	4.796789	0.700000	0.561653	35.022268	9.408597
bin	0.899183	28.750000	12.359402	0.932500	0.200351	8.067020	9.534232
minmax	0.788818	4.750000	2.500606	0.482500	0.392213	56.327209	10.072025
topK_5	0.159315	2.000000	1.222972	0.305000	0.913795	72.973278	7.872777
topK_30	0.623726	10.000000	4.870080	0.542500	0.674179	49.493281	9.251675
sigmoid	0.497470	2.000000	0.954793	0.677500	0.014309	42.379379	10.374871
sigmoid_pos	0.496602	2.000000	0.963045	0.675000	0.013037	42.468471	10.374927
pos_thresh_75	0.238406	3.250000	1.655848	0.350000	0.861821	68.189178	8.186731

In [15]: display_experiment_results(experiment_results["cnn14_logmel"]["shap_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.927128	0.000000	0.000000	0.017500	0.500000	98.489136	9.682342
topK_30_pos	0.920323	0.000000	0.000000	0.015000	0.700006	98.376693	9.171495
minmax_pos	0.742941	0.000000	0.000000	0.017500	0.730384	98.140806	9.325663
topK_5_pos	0.644693	0.000000	0.000000	0.027500	0.949973	97.529152	7.380256
pos_thresh_50	0.059368	0.250000	0.190206	0.025000	0.996374	97.753463	4.424030
topK_50	0.927128	0.000000	0.000000	0.017500	0.500000	98.489136	9.682342
pos_thresh_25	0.514186	0.000000	0.000000	0.020000	0.955756	97.999591	7.109132
bin	0.927023	0.000000	0.000000	0.015000	0.488779	98.448432	9.704492
minmax	0.896360	0.000000	0.000000	0.080000	0.069193	93.939058	10.366691
topK_5	0.644693	0.000000	0.000000	0.027500	0.949973	97.529152	7.380256
topK_30	0.920323	0.000000	0.000000	0.015000	0.700006	98.376693	9.171495
sigmoid	0.411541	1.750000	0.706020	0.635000	0.001600	45.859315	10.375483
sigmoid_pos	0.413540	2.000000	0.717767	0.632500	0.000816	45.765673	10.375487
pos_thresh_75	0.000941	0.000000	0.000000	0.027500	0.998980	97.767977	1.983555

STFT model - clean

In [16]: display_experiment_results(experiment_results["cnn14_logstft"]["saliency_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.804243	21.250000	0.005357	0.515000	0.246247	48.376074	5.221556
topK_30_pos	0.775971	1.000000	0.695137	0.030000	0.699991	96.617813	10.091335
minmax_pos	0.793905	1.250000	0.374701	0.045000	0.783134	94.492255	9.997833
topK_5_pos	0.617889	0.750000	0.579243	0.030000	0.949986	96.632662	8.299783
pos_thresh_50	0.031167	0.500000	0.253879	0.030000	0.999009	96.453913	3.677172
topK_50	0.791540	0.500000	0.431110	0.027500	0.499994	96.391078	10.602145
pos_thresh_25	0.219041	1.250000	0.177886	0.040000	0.991120	95.720335	6.327378
bin	0.791281	0.500000	0.430915	0.027500	0.500274	96.420557	10.601551
minmax	0.788165	10.000000	6.286535	0.342500	0.038138	66.196693	11.292008
topK_5	0.617889	0.750000	0.579243	0.030000	0.949986	96.632662	8.299783
topK_30	0.775971	1.000000	0.695137	0.030000	0.699991	96.617813	10.091335
sigmoid	0.643469	2.500000	0.838001	0.202500	0.000142	79.326670	11.295279
sigmoid_pos	0.641400	2.000000	0.750599	0.197500	0.000071	79.565167	11.295279
pos_thresh_75	0.006663	0.000000	0.000000	0.010000	0.997741	97.268040	1.625156

In [17]: display_experiment_results(experiment_results["cnn14_logstft"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.724579	24.750000	0.217910	0.702500	0.224974	31.075000	4.771012
topK_30_pos	0.572529	16.250000	0.219069	0.517500	0.442721	50.726126	6.382848
minmax_pos	0.320230	0.500000	0.087757	0.100000	0.610100	90.744003	9.346533
topK_5_pos	0.191031	6.250000	0.071148	0.157500	0.835978	84.384347	7.304013
pos_thresh_50	0.266586	0.250000	0.207937	0.117500	0.762384	89.263126	8.492369
topK_50	0.585838	4.000000	1.152864	0.437500	0.499938	59.861858	10.602257
pos_thresh_25	0.398511	2.250000	0.973528	0.267500	0.600928	73.924376	9.142811
bin	0.474595	7.500000	1.070762	0.497500	0.451437	54.120088	8.475080
minmax	0.567456	1.750000	0.520995	0.262500	0.295466	75.694391	11.139094
topK_5	0.114764	0.250000	0.070154	0.040000	0.949974	95.877295	8.300039
topK_30	0.425481	1.500000	0.694756	0.272500	0.699953	76.859205	10.091461
sigmoid	0.634957	1.750000	0.747174	0.190000	0.014194	80.017202	11.294890
sigmoid_pos	0.645253	2.250000	0.778206	0.205000	0.007431	79.146000	10.504438
pos_thresh_75	0.101793	0.000000	0.000000	0.050000	0.879805	95.176441	7.329255

In [18]: display_experiment_results(experiment_results["cnn14_logstft"]["lime_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.765314	16.750000	8.681377	0.452500	0.472411	55.331106	10.164076
topK_30_pos	0.694155	10.000000	5.252163	0.337500	0.691593	67.192280	10.118696
minmax_pos	0.633585	1.000000	0.381902	0.180000	0.621340	84.303404	10.527688
topK_5_pos	0.250140	0.750000	0.135246	0.135000	0.936524	89.718892	8.527748
pos_thresh_50	0.431767	0.750000	0.356323	0.182500	0.868335	84.286786	9.100906
topK_50	0.764448	15.500000	9.093660	0.427500	0.493322	57.746470	10.615335
pos_thresh_25	0.676561	5.750000	2.650058	0.335000	0.697021	68.592485	9.986101
bin	0.790285	26.000000	14.205455	0.685000	0.272667	32.028679	10.931619
minmax	0.685044	3.000000	1.561553	0.237500	0.311617	77.522342	11.105058
topK_5	0.250140	0.750000	0.135246	0.135000	0.936524	89.718892	8.527748
topK_30	0.694155	10.000000	5.252163	0.337500	0.691593	67.192280	10.118696
sigmoid	0.647775	2.500000	0.875570	0.217500	0.007533	78.297433	11.295110
sigmoid_pos	0.648529	2.500000	0.878564	0.222500	0.006348	78.271001	11.295134
pos_thresh_75	0.213145	0.250000	0.078971	0.122500	0.943129	90.821143	8.265318

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	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.802137	3.750000	0.377866	0.117500	0.448744	88.001432	9.515425
topK_30_pos	0.763906	0.500000	0.387102	0.027500	0.699991	97.378508	10.091335
minmax_pos	0.455331	0.250000	0.026532	0.020000	0.733023	96.696681	10.238195
topK_5_pos	0.444995	0.250000	0.030072	0.017500	0.949986	96.534742	8.299783
pos_thresh_50	0.042832	0.750000	0.169498	0.010000	0.997583	97.548774	4.935396
topK_50	0.797198	0.500000	0.377006	0.020000	0.499994	97.530510	10.602145
pos_thresh_25	0.325835	0.000000	0.000000	0.020000	0.963614	97.014994	7.850671
bin	0.796341	0.500000	0.376295	0.020000	0.491457	97.488113	10.618963
minmax	0.758164	1.250000	0.592583	0.085000	0.072735	92.499200	11.285742
topK_5	0.444995	0.250000	0.030072	0.017500	0.949986	96.534742	8.299783
topK_30	0.763906	0.500000	0.387102	0.027500	0.699991	97.378508	10.091335
sigmoid	0.638561	2.000000	0.676899	0.190000	0.000569	79.908981	11.295279
sigmoid_pos	0.638853	2.000000	0.679504	0.192500	0.000291	79.869016	11.295279
pos_thresh_75	0.000926	0.250000	0.015382	0.012500	0.998292	97.660085	2.156133

Mel model clean - correct

In [20]: display_experiment_results(experiment_results_true["cnn14_logmel"]["saliency_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.945407	17.073171	0.011396	0.680217	0.163957	32.330323	3.174969
topK_30_pos	0.945672	0.000000	0.000000	0.016260	0.700006	98.377567	9.171495
minmax_pos	0.779311	0.000000	0.000000	0.092141	0.788313	94.163711	9.036151
topK_5_pos	0.772949	0.000000	0.000000	0.024390	0.949973	97.640883	7.380256
pos_thresh_50	0.029163	0.271003	0.188326	0.018970	0.998817	97.861775	3.133157
topK_50	0.946665	0.000000	0.000000	0.021680	0.500000	98.339428	9.682342
pos_thresh_25	0.259918	0.271003	0.169656	0.021680	0.990384	97.379375	5.511346
bin	0.946579	0.000000	0.000000	0.021680	0.501572	98.350047	9.679155
minmax	0.882767	4.065041	3.410292	0.279133	0.038666	76.540316	10.371953
topK_5	0.772949	0.000000	0.000000	0.024390	0.949973	97.640883	7.380256
topK_30	0.945672	0.000000	0.000000	0.016260	0.700006	98.377567	9.171495
sigmoid	0.487210	3.252033	1.559783	0.731707	0.000438	36.225326	10.375488
sigmoid_pos	0.451754	2.710027	1.270092	0.710027	0.000220	38.730136	10.375489
pos_thresh_75	0.005135	0.000000	0.000000	0.032520	0.998687	97.610025	1.324031

In [21]: display_experiment_results(experiment_results_true["cnn14_logmel"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.630246	10.569106	0.885289	0.666667	0.384207	38.209700	7.453223
topK_30_pos	0.362149	7.046070	0.438331	0.447154	0.604240	61.349777	7.931774
minmax_pos	0.442164	0.542005	0.497571	0.379404	0.389012	69.407910	9.366113
topK_5_pos	0.077364	2.710027	0.000678	0.138211	0.892246	88.718802	6.961431
pos_thresh_50	0.376808	4.065041	1.477375	0.479675	0.535387	58.944749	8.656051
topK_50	0.534547	4.336043	2.269330	0.577236	0.499126	48.482414	9.684078
pos_thresh_25	0.619630	12.466125	2.900091	0.712737	0.339949	35.056717	7.534071
bin	0.743637	19.241192	2.057722	0.802168	0.185910	22.318007	4.848208
minmax	0.523824	1.084011	0.568076	0.411924	0.336639	65.374030	10.149080
topK_5	0.028273	0.000000	0.000000	0.094851	0.948832	93.922137	7.402466
topK_30	0.275450	2.168022	0.666223	0.371274	0.698775	70.113108	9.175550
sigmoid	0.501385	2.168022	1.054277	0.712737	0.027383	38.411951	10.373904
sigmoid_pos	0.507619	2.981030	1.396197	0.712737	0.022402	37.906985	9.839989
pos_thresh_75	0.162608	0.271003	0.238079	0.227642	0.782878	83.316661	7.925729

In [22]: display_experiment_results(experiment_results_true["cnn14_logmel"]["lime_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.847274	13.279133	5.791467	0.769648	0.463530	28.938404	9.463903
topK_30_pos	0.632108	9.485095	4.781647	0.555556	0.673927	48.656539	9.252500
minmax_pos	0.772356	3.794038	1.600055	0.460705	0.543287	59.272476	9.750867
topK_5_pos	0.145929	1.355014	0.881449	0.311653	0.912932	72.477098	7.881742
pos_thresh_50	0.492048	2.710027	1.588524	0.490515	0.744019	56.764825	8.818588
topK_50	0.845376	13.821138	6.459969	0.764228	0.476298	29.388786	9.727778
pos_thresh_25	0.819008	9.485095	4.675122	0.731707	0.555752	32.783006	9.432027
bin	0.920931	28.726287	12.686897	0.953930	0.195358	6.189071	9.547627
minmax	0.805307	4.607046	2.325402	0.504065	0.394354	54.714965	10.071379
topK_5	0.145929	1.355014	0.881449	0.311653	0.912932	72.477098	7.881742
topK_30	0.632108	9.485095	4.781647	0.555556	0.673927	48.656539	9.252500
sigmoid	0.493142	2.168022	1.035006	0.704607	0.014497	39.768185	10.374856
sigmoid_pos	0.492211	2.168022	1.043951	0.701897	0.013297	39.867365	10.374910
pos_thresh_75	0.230053	2.710027	1.442576	0.363144	0.858715	67.244040	8.211671

In [23]: display_experiment_results(experiment_results_true["cnn14_logmel"]["shap_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.948405	0.000000	0.000000	0.018970	0.500000	98.487189	9.682342
topK_30_pos	0.942526	0.000000	0.000000	0.016260	0.700006	98.375260	9.171495
minmax_pos	0.756791	0.000000	0.000000	0.018970	0.730700	98.266224	9.324414
topK_5_pos	0.660258	0.000000	0.000000	0.027100	0.949973	97.559801	7.380256
pos_thresh_50	0.056379	0.000000	0.000000	0.021680	0.996380	97.994332	4.427683
topK_50	0.948405	0.000000	0.000000	0.018970	0.500000	98.487189	9.682342
pos_thresh_25	0.524006	0.000000	0.000000	0.018970	0.955952	98.076177	7.102215
bin	0.948274	0.000000	0.000000	0.016260	0.488946	98.450221	9.704169
minmax	0.916186	0.000000	0.000000	0.084011	0.069038	93.863099	10.366718
topK_5	0.660258	0.000000	0.000000	0.027100	0.949973	97.559801	7.380256
topK_30	0.942526	0.000000	0.000000	0.016260	0.700006	98.375260	9.171495
sigmoid	0.402466	1.897019	0.765333	0.672087	0.001581	43.059117	10.375483
sigmoid_pos	0.404587	2.168022	0.778068	0.669377	0.000807	42.974514	10.375487
pos_thresh_75	0.001608	0.000000	0.000000	0.024390	0.998985	98.047735	1.986147

In [24]: display_experiment_results(experiment_results_false["cnn14_logmel"]["saliency_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.662846	16.129032	0.003964	0.419355	0.290323	56.825893	5.622005
topK_30_pos	0.670454	0.000000	0.000000	0.000000	0.700006	98.416065	9.171495
minmax_pos	0.605179	3.225806	0.639638	0.032258	0.804512	92.524422	8.902249
topK_5_pos	0.613254	0.000000	0.000000	0.000000	0.949973	97.654032	7.380256
pos_thresh_50	0.092098	0.000000	0.000000	0.000000	0.998837	96.012966	3.050318
topK_50	0.673416	0.000000	0.000000	0.000000	0.500000	98.537152	9.682342
pos_thresh_25	0.345686	3.225806	2.126949	0.064516	0.990689	94.561785	5.355628
bin	0.673358	0.000000	0.000000	0.000000	0.499835	98.532379	9.682547
minmax	0.658679	0.000000	0.000000	0.161290	0.033137	89.082037	10.372571
topK_5	0.613254	0.000000	0.000000	0.000000	0.949973	97.654032	7.380256
topK_30	0.670454	0.000000	0.000000	0.000000	0.700006	98.416065	9.171495
sigmoid	0.578050	6.451613	1.906163	0.387097	0.000389	67.686891	10.375488
sigmoid_pos	0.557008	0.000000	0.000000	0.290323	0.000195	73.127409	10.375489
pos_thresh_75	-0.007497	0.000000	0.000000	0.000000	0.998781	94.770001	1.410973

In [25]: display_experiment_results(experiment_results_false["cnn14_logmel"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.510053	25.806452	2.191429	0.483871	0.289428	48.044750	5.623778
topK_30_pos	0.370261	19.354839	2.664075	0.419355	0.473962	56.478008	6.213730
minmax_pos	0.304390	3.225806	2.790927	0.161290	0.481220	84.345221	8.588200
topK_5_pos	0.100836	9.677419	0.002109	0.161290	0.856589	84.277379	6.693920
pos_thresh_50	0.239048	6.451613	3.191839	0.258065	0.592162	77.307186	7.677133
topK_50	0.418908	6.451613	3.837831	0.193548	0.498788	74.529634	9.684749
pos_thresh_25	0.359428	9.677419	2.947487	0.354839	0.438772	63.079039	7.458135
bin	0.424467	22.580645	5.339440	0.548387	0.309716	48.713074	5.754914
minmax	0.396560	3.225806	3.198057	0.161290	0.319760	82.133567	10.169128
topK_5	0.058653	0.000000	0.000000	0.096774	0.948455	92.453693	7.409452
topK_30	0.248931	3.225806	2.659505	0.129032	0.698807	85.006246	9.175436
sigmoid	0.524053	0.000000	0.000000	0.258065	0.013287	79.279771	10.375098
sigmoid_pos	0.525585	0.000000	0.000000	0.193548	0.008527	79.279782	9.371171
pos_thresh_75	0.113465	0.000000	0.000000	0.129032	0.776680	90.356591	7.241546

In [26]: display_experiment_results(experiment_results_false["cnn14_logmel"]["lime_clean"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.586783	16.129032	3.302271	0.516129	0.434898	45.450130	8.777023
topK_30_pos	0.523954	16.129032	5.922719	0.387097	0.677181	59.453209	9.241862
minmax_pos	0.576111	6.451613	3.403436	0.161290	0.598479	77.663271	9.564484
topK_5_pos	0.318655	9.677419	5.288197	0.225806	0.924064	78.879420	7.766068
pos_thresh_50	0.415989	6.451613	4.145134	0.258065	0.807937	72.497425	8.405885
topK_50	0.586913	12.903226	4.689164	0.451613	0.479526	51.697237	9.721214
pos_thresh_25	0.612332	12.903226	6.245024	0.322581	0.631892	61.676711	9.129704
bin	0.640306	29.032258	8.461155	0.677419	0.259775	30.420668	9.374790
minmax	0.592543	6.451613	4.586105	0.225806	0.366728	75.518108	10.079711
topK_5	0.318655	9.677419	5.288197	0.225806	0.924064	78.879420	7.766068
topK_30	0.523954	16.129032	5.922719	0.387097	0.677181	59.453209	9.241862
sigmoid	0.548984	0.000000	0.000000	0.354839	0.012076	73.461004	10.375050
sigmoid_pos	0.548869	0.000000	0.000000	0.354839	0.009937	73.430027	10.375136
pos_thresh_75	0.337834	9.677419	4.194467	0.193548	0.898795	79.439362	7.889867

In [27]: display_experiment_results(experiment_results_false["cnn14_logmel"]["shap_clean"])

	FF	Al	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.673863	0.000000	0.000000	0.000000	0.500000	98.512308	9.682342
topK_30_pos	0.656046	0.000000	0.000000	0.000000	0.700006	98.393752	9.171495
minmax_pos	0.578087	0.000000	0.000000	0.000000	0.726615	96.647926	9.340534
topK_5_pos	0.459420	0.000000	0.000000	0.032258	0.949973	97.164324	7.380256
pos_thresh_50	0.094950	3.225806	2.454268	0.064516	0.996303	94.886344	4.380559
topK_50	0.673863	0.000000	0.000000	0.000000	0.500000	98.512308	9.682342
pos_thresh_25	0.397294	0.000000	0.000000	0.032258	0.953419	97.087980	7.191464
bin	0.674068	0.000000	0.000000	0.000000	0.486790	98.427143	9.708335
minmax	0.660365	0.000000	0.000000	0.032258	0.071041	94.843223	10.366376
topK_5	0.459420	0.000000	0.000000	0.032258	0.949973	97.164324	7.380256
topK_30	0.656046	0.000000	0.000000	0.000000	0.700006	98.393752	9.171495
sigmoid	0.519564	0.000000	0.000000	0.193548	0.001829	79.190700	10.375480
sigmoid_pos	0.520112	0.000000	0.000000	0.193548	0.000934	78.989477	10.375486
pos_thresh_75	-0.007000	0.000000	0.000000	0.064516	0.998926	94.437956	1.952701

STFT model clean - correct

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.866403	21.153846	0.006039	0.519231	0.245189	47.934814	5.199129
topK_30_pos	0.838052	0.320513	0.019933	0.028846	0.699991	96.769077	10.091335
minmax_pos	0.851453	0.320513	0.038429	0.035256	0.781555	95.605697	10.009087
topK_5_pos	0.647590	0.000000	0.000000	0.028846	0.949986	96.805100	8.299783
pos_thresh_50	0.024769	0.320513	0.133165	0.028846	0.999013	96.935649	3.706453
topK_50	0.853016	0.000000	0.000000	0.028846	0.499994	96.267474	10.602145
pos_thresh_25	0.206891	0.641026	0.037393	0.044872	0.991009	95.848175	6.354969
bin	0.852802	0.000000	0.000000	0.028846	0.500330	96.315157	10.601439
minmax	0.848827	8.333333	5.478854	0.371795	0.038374	65.418301	11.291996
topK_5	0.647590	0.000000	0.000000	0.028846	0.949986	96.805100	8.299783
topK_30	0.838052	0.320513	0.019933	0.028846	0.699991	96.769077	10.091335
sigmoid	0.678723	1.923077	0.405414	0.237179	0.000143	77.095965	11.295279
sigmoid_pos	0.676650	1.282051	0.318633	0.230769	0.000071	77.316344	11.295279
pos_thresh_75	0.005165	0.000000	0.000000	0.009615	0.997864	97.744719	1.667829

In [29]: display_experiment_results(experiment_results_true["cnn14_logstft"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.777619	21.794872	0.227320	0.698718	0.237156	31.810478	5.029264
topK_30_pos	0.594974	14.102564	0.279717	0.519231	0.464397	51.586828	6.695281
minmax_pos	0.337215	0.000000	0.000000	0.108974	0.618437	90.448146	9.652682
topK_5_pos	0.171583	4.166667	0.090463	0.121795	0.873857	88.453087	7.634905
pos_thresh_50	0.281354	0.320513	0.266586	0.128205	0.777310	88.980275	8.772010
topK_50	0.621108	3.205128	1.185983	0.490385	0.499945	56.917732	10.602242
pos_thresh_25	0.427502	2.243590	0.786154	0.314103	0.609550	71.119038	9.441787
bin	0.510466	7.051282	1.019737	0.560897	0.452052	49.886688	8.809827
minmax	0.596427	0.961538	0.059732	0.307692	0.302410	73.605895	11.132301
topK_5	0.112911	0.320513	0.089942	0.041667	0.949976	96.201768	8.299985
topK_30	0.438422	0.961538	0.497975	0.314103	0.699965	74.869156	10.091422
sigmoid	0.669639	0.961538	0.350558	0.221154	0.015088	77.747138	11.294846
sigmoid_pos	0.681245	1.602564	0.399060	0.240385	0.008155	76.818237	10.752045
pos_thresh_75	0.098735	0.000000	0.000000	0.060897	0.900679	95.351209	7.564960

In [30]: display_experiment_results(experiment_results_true["cnn14_logstft"]["lime_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.819873	16.025641	8.791465	0.487179	0.477505	52.765375	10.275113
topK_30_pos	0.736013	9.935897	5.330596	0.378205	0.691351	64.301468	10.119489
minmax_pos	0.663173	0.320513	0.161831	0.195513	0.618076	82.921527	10.539677
topK_5_pos	0.240962	0.320513	0.047541	0.153846	0.936539	89.954697	8.527599
pos_thresh_50	0.439892	0.641026	0.345008	0.211538	0.865942	82.839096	9.122823
topK_50	0.819409	14.743590	8.993968	0.471154	0.493327	54.287029	10.615327
pos_thresh_25	0.718068	6.410256	2.899278	0.391026	0.694511	64.846598	9.999663
bin	0.852587	26.282051	14.748848	0.740385	0.263340	27.300729	10.937771
minmax	0.723457	1.923077	0.862809	0.269231	0.323994	75.558178	11.092808
topK_5	0.240962	0.320513	0.047541	0.153846	0.936539	89.954697	8.527599
topK_30	0.736013	9.935897	5.330596	0.378205	0.691351	64.301468	10.119489
sigmoid	0.683565	1.923077	0.589405	0.256410	0.008007	75.868932	11.295089
sigmoid_pos	0.684526	1.923077	0.588550	0.259615	0.006876	75.819090	11.295114
pos_thresh_75	0.209489	0.000000	0.000000	0.141026	0.941131	90.261793	8.309398

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.866932	3.525641	0.001048	0.128205	0.442302	86.934263	9.378820
topK_30_pos	0.819402	0.320513	0.247077	0.025641	0.699991	97.677030	10.091335
minmax_pos	0.494791	0.000000	0.000000	0.022436	0.733112	97.260683	10.237796
topK_5_pos	0.476380	0.000000	0.000000	0.012821	0.949986	97.279296	8.299783
pos_thresh_50	0.045245	0.641026	0.145455	0.009615	0.997592	97.715419	4.940646
topK_50	0.860424	0.000000	0.000000	0.019231	0.499994	97.549404	10.602145
pos_thresh_25	0.342238	0.000000	0.000000	0.022436	0.963501	97.027136	7.854634
bin	0.859379	0.000000	0.000000	0.019231	0.491929	97.497706	10.618033
minmax	0.817470	0.641026	0.473305	0.089744	0.072855	92.578307	11.285715
topK_5	0.476380	0.000000	0.000000	0.012821	0.949986	97.279296	8.299783
topK_30	0.819402	0.320513	0.247077	0.025641	0.699991	97.677030	10.091335
sigmoid	0.673730	1.282051	0.249070	0.224359	0.000562	77.652291	11.295279
sigmoid_pos	0.674058	1.282051	0.252754	0.227564	0.000287	77.608474	11.295279
pos_thresh_75	0.000827	0.320513	0.019721	0.012821	0.998282	97.945908	2.146913

STFT model clean - incorrect

In [32]: display_experiment_results(experiment_results_false["cnn14_logstft"]["saliency_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.583857	21.590909	0.002940	0.500000	0.249997	49.940538	5.301072
topK_30_pos	0.555864	3.409091	3.089041	0.034091	0.699991	96.081514	10.091335
minmax_pos	0.589870	4.545455	1.566937	0.079545	0.788733	90.544596	9.957932
topK_5_pos	0.512585	3.409091	2.632922	0.034091	0.949986	96.021290	8.299783
pos_thresh_50	0.053851	1.136364	0.681866	0.034091	0.998995	94.745940	3.573356
topK_50	0.573580	2.272727	1.959591	0.022727	0.499994	96.829311	10.602145
pos_thresh_25	0.262116	3.409091	0.675997	0.022727	0.991514	95.267087	6.229557
bin	0.573162	2.272727	1.958704	0.022727	0.500076	96.794247	10.601947
minmax	0.573092	15.909091	9.150131	0.238636	0.037301	68.956449	11.292049
topK_5	0.512585	3.409091	2.632922	0.034091	0.949986	96.021290	8.299783
topK_30	0.555864	3.409091	3.089041	0.034091	0.699991	96.081514	10.091335
sigmoid	0.518476	4.545455	2.371716	0.079545	0.000139	87.235531	11.295279
sigmoid_pos	0.516426	4.545455	2.282114	0.079545	0.000069	87.538266	11.295279
pos_thresh_75	0.011976	0.000000	0.000000	0.011364	0.997306	95.577996	1.473861

In [33]: display_experiment_results(experiment_results_false["cnn14_logstft"]["gradcam_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.536529	35.227273	0.184548	0.715909	0.181783	28.467397	3.855392
topK_30_pos	0.492952	23.863636	0.004043	0.511364	0.365870	47.674545	5.275132
minmax_pos	0.260011	2.272727	0.398896	0.068182	0.580542	91.792949	8.261096
topK_5_pos	0.259980	13.636364	0.002665	0.284091	0.701678	69.958815	6.130854
pos_thresh_50	0.214227	0.000000	0.000000	0.079545	0.709466	90.265962	7.500912
topK_50	0.460792	6.818182	1.035443	0.250000	0.499912	70.300123	10.602308
pos_thresh_25	0.295724	2.272727	1.637856	0.102273	0.570356	83.870576	8.082806
bin	0.347414	9.090909	1.251668	0.272727	0.449259	69.129412	7.288249
minmax	0.464737	4.545455	2.156380	0.102273	0.270848	83.099057	11.163179
topK_5	0.121334	0.000000	0.000000	0.034091	0.949964	94.726891	8.300231
topK_30	0.379601	3.409091	1.392433	0.125000	0.699911	83.914835	10.091600
sigmoid	0.511993	4.545455	2.153358	0.079545	0.011028	88.065612	11.295047
sigmoid_pos	0.517645	4.545455	2.122453	0.079545	0.004862	87.398976	9.626561
pos_thresh_75	0.112632	0.000000	0.000000	0.011364	0.805798	94.556810	6.493573

In [34]: display_experiment_results(experiment_results_false["cnn14_logstft"]["lime_clean"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.571876	19.318182	8.291065	0.329545	0.454352	64.427788	9.770401
topK_30_pos	0.545752	10.227273	4.974083	0.193182	0.692452	77.441519	10.115883
minmax_pos	0.528683	3.409091	1.162153	0.125000	0.632914	89.202784	10.485179
topK_5_pos	0.282679	2.272727	0.446200	0.068182	0.936471	88.882856	8.528274
pos_thresh_50	0.402962	1.136364	0.396439	0.079545	0.876820	89.419504	9.023198
topK_50	0.569587	18.181818	9.447117	0.272727	0.493305	70.011761	10.615364
pos_thresh_25	0.529402	3.409091	1.766459	0.136364	0.705919	81.873358	9.938019
bin	0.569395	25.000000	12.278881	0.488636	0.305734	48.791411	10.909807
minmax	0.548853	6.818182	4.038918	0.125000	0.267736	84.486198	11.148491
topK_5	0.282679	2.272727	0.446200	0.068182	0.936471	88.882856	8.528274
topK_30	0.545752	10.227273	4.974083	0.193182	0.692452	77.441519	10.115883
sigmoid	0.520885	4.545455	1.890153	0.079545	0.005856	86.907575	11.295183
sigmoid_pos	0.520906	4.545455	1.906799	0.090909	0.004478	86.964142	11.295207
pos_thresh_75	0.226106	1.136364	0.358961	0.056818	0.950215	92.804292	8.109034

In [35]: display_experiment_results(experiment_results_false["cnn14_logstft"]["shap_clean"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.572406	4.545455	1.713856	0.079545	0.471585	91.785030	9.999750
topK_30_pos	0.567148	1.136364	0.883552	0.034091	0.699991	96.320111	10.091335
minmax_pos	0.315426	1.136364	0.120598	0.011364	0.732705	94.697038	10.239613
topK_5_pos	0.333723	1.136364	0.136690	0.034091	0.949986	93.894961	8.299783
pos_thresh_50	0.034279	1.136364	0.254741	0.011364	0.997548	96.957944	4.916781
topK_50	0.573036	2.272727	1.713665	0.022727	0.499994	97.463520	10.602145
pos_thresh_25	0.267677	0.000000	0.000000	0.011364	0.964013	96.971944	7.836621
bin	0.572843	2.272727	1.710430	0.022727	0.489782	97.454102	10.622260
minmax	0.547897	3.409091	1.015477	0.068182	0.072308	92.218731	11.285838
topK_5	0.333723	1.136364	0.136690	0.034091	0.949986	93.894961	8.299783
topK_30	0.567148	1.136364	0.883552	0.034091	0.699991	96.320111	10.091335
sigmoid	0.513871	4.545455	2.193745	0.068182	0.000593	87.909972	11.295279
sigmoid_pos	0.514032	4.545455	2.192524	0.068182	0.000304	87.883667	11.295279
pos_thresh_75	0.001278	0.000000	0.000000	0.011364	0.998327	96.646713	2.188824

Mask experiments clean - mel model

In [36]: display_experiment_results(mask_experiment_results["cnn14_logmel"]["clean"]) --- topK_50_pos ---ΑI AG FidIn SPS ΑD COMP saliency 0.923509 17.000000 0.010820 0.660000 0.173750 34.228729 3.364614 **gradcam 0.620931** 11.750000 0.986515 0.652500 0.376861 38.971917 7.311441 0.827086 13.500000 **5.598555 0.750000** 0.461311 **30.218063** 9.410670 lime 0.927128 0.000000 0.000000 0.017500 0.500000 98.489136 9.682342 --- topK_30_pos ---FF ΑI AG FidIn SPS AD COMP saliency 0.924342 0.000000 0.000000 0.015000 0.700006 98.380550 9.171495 8.000000 0.610826 0.445000 gradcam 0.362777 0.594143 0.623726 **10.000000 4.870080 0.542500** 0.674179 **49.493281 9.251675** 0.920323 0.000000 0.000000 0.015000 0.700006 98.376693 9.171495 shap --- minmax_pos ---FF ΑI AG FidIn SPS AD COMP saliency 0.765816 0.250000 0.049572 0.087500 0.789568 94.036667 **9.025774** gradcam 0.431486 70.565552 9.305825 0.757147 **4.000000 1.739817 0.437500** 0.547565 60.697763 9.736422 lime 0.000000 0.000000 0.017500 98.140806 **shap** 0.742941 0.730384 9.325663 --- topK_5_pos ---FidIn COMP saliency 0.760572 0.000000 0.000000 0.022500 0.949973 97.641902 7.380256 gradcam 0.079183 3.250000 0.000789 0.140000 0.889483 88.374592 **6.940699** 0.159315 2.000000 1.222972 0.305000 0.913795 **72.973278 7.872777 shap** 0.644693 **0.000000 0.000000** 0.027500 **0.949973** 97.529152 7.380256 --- pos thresh 50 ---ΑI AG FidIn SPS COMP saliency 0.034041 0.250000 0.173731 0.017500 0.998818 97.718493 3.126737 **gradcam** 0.366132 **4.250000** 1.610246 0.462500 **0.539787** 60.367838 3.000000 **1.786661 0.472500** 0.748973 lime 0.486153 57.984101 8.786603 0.059368 **0.250000** 0.190206 0.025000 0.996374 **97.753463** 4.424030 shap --- topK_50 ---FF ΑI AG FidIn SPS AD COMP **0.000000 0.000000** 0.020000 98.354752 **saliency** 0.925488 0.500000 gradcam 0.525585 4.500000 2.390889 0.547500 0.499100 50.501074 9.684130 0.825345 **13.750000 6.322732 0.740000 0.476548 31.117691 9.727269** lime shap 0.927128 0.000000 0.000000 0.017500 0.500000 98.489136 9.682342 --- pos_thresh_25 ---COMP AG FidIn SPS AD saliency **0.266565** 0.500000 0.321346 0.025000 0.990407 97.161012 **5.499278** 0.599464 **12.250000** gradcam 2.903764 0.685000 0.347608 37.228447 7.528186 lime 0.802991 9.750000 **4.796789 0.700000** 0.561653 35.022268 9.408597 0.955756 **97.999591** 0.000000 0.000000 0.020000 shap 0.514186 7.109132 --- bin ---

	FF	AI	A	G Fidl	n SP	S AI	о сомг
saliency	0.925405	0.000000	0.00000	0.02000	0.50143	7 98.36417	8 9.679418
gradcam	0.718901	19.500000	2.31205	5 0.78250	0.19550	5 24.36362	5 4.918478
lime	0.899183	28.750000	12.35940	2 0.93250	0.20035	1 8.06702	9.534232
shap	0.927023	0.000000	0.00000	0.01500	0.48877	9 98.44843	9.704492
minm	ax						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.865400	3.750000	3.145995	0.270000	0.038238	77.512300	10.372001
gradcam	0.513961	1.250000	0.771900	0.392500	0.335331	66.672894	10.150634
lime	0.788818	4.750000	2.500606	0.482500	0.392213	56.327209	10.072025
shap	0.896360	0.000000	0.000000	0.080000	0.069193	93.939058	10.366691
topK	_						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.760572	0.000000	0.000000	0.022500	0.949973	97.641902	7.380256
gradcam	0.030628	0.000000	0.000000	0.095000	0.948803	93.808333	7.403008
lime	0.159315	2.000000	1.222972	0.305000	0.913795	72.973278	7.872777
shap	0.644693	0.000000	0.000000	0.027500	0.949973	97.529152	7.380256
topK	_		4.5	F:JI	cnc	AD	COMP
	FF	Al		FidIn		AD	COMP
saliency	0.924342	0.000000	0.000000	0.015000		98.380550	9.171495
gradcam	0.273394	2.250000	0.820703	0.352500	0.698777	71.267326	9.175542
lime	0.623726	10.000000	4.870080	0.542500		49.493281	9.251675
shap	0.920323	0.000000	0.000000	0.015000	0.700006	98.376693	9.171495
sigm	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.494250	3.500000	1.586628	0.705000	0.000435	38.663598	10.375488
gradcam	0.503142	2.000000	0.972570	0.677500	0.026291	41.579207	10.373997
lime	0.497470	2.000000	0.954793	0.677500	0.014309	42.379379	10.374871
shap	0.411541	1.750000	0.706020	0.635000	0.001600	45.859315	10.375483
	oid_pos	- -					
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.459911	2.500000	1.171660	0.677500	0.000218	41.395925	10.375489
gradcam	0.509011	2.750000	1.287992	0.672500	0.021327	41.113377	9.803656
lime	0.496602	2.000000	0.963045	0.675000	0.013037	42.468471	10.374927
shap	0.413540	2.000000	0.717767	0.632500	0.000816	45.765673	10.375487
pos_	thresh_75						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.004156	0.000000	0.000000	0.030000	0.998694	97.389923	1.330769
gradcam	0.158799	0.250000	0.219627	0.220000	0.782398	83.862255	7.872705
lime	0.238406	3.250000	1.655848	0.350000	0.861821	68.189178	8.186731
shap	0.000941	0.000000	0.000000	0.027500	0.998980	97.767977	1.983555

Mask experiments - stft model

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.804243	21.250000	0.005357	0.515000	0.246247	48.376074	5.221556
gradcam	0.724579	24.750000	0.217910	0.702500	0.224974	31.075000	4.771012
lime	0.765314	16.750000	8.681377	0.452500	0.472411	55.331106	10.164076
shap	0.802137	3.750000	0.377866	0.117500	0.448744	88.001432	9.515425
topK	_30_pos		4.5	F1.41.	cnc	45	COMP
!:	FF 0.775074	AI	AG	0.030000	SPS	AD	10.00122F
saliency	0.775971	1.000000 16.250000	0.695137 0.219069	0.030000	0.699991	96.617813 50.726126	10.091335 6.382848
lime	0.694155	10.000000	5.252163	0.317300	0.691593	67.192280	10.118696
shap	0.763906	0.500000	0.387102	0.027500	0.699991	97.378508	10.091335
•	ax pos		0.507 102	0.027000	0.00000	51157555	10.03 1003
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.793905	1.250000	0.374701	0.045000	0.783134	94.492255	9.997833
gradcam	0.320230	0.500000	0.087757	0.100000	0.610100	90.744003	9.346533
lime	0.633585	1.000000	0.381902	0.180000	0.621340	84.303404	10.527688
shap	0.455331	0.250000	0.026532	0.020000	0.733023	96.696681	10.238195
topK	_5_pos						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.617889		0.579243	0.030000	0.949986	96.632662	8.299783
gradcam	0.191031	6.250000	0.071148	0.157500	0.835978	84.384347	7.304013
lime	0.250140	0.750000	0.135246	0.135000	0.936524	89.718892	8.527748
shap	0.444995		0.030072	0.017500	0.949986	96.534742	8.299783
pos_	thresh_50	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.031167	0.500000	0.253879	0.030000	0.999009	96.453913	3.677172
gradcam	0.266586	0.250000	0.207937	0.117500	0.762384	89.263126	8.492369
lime	0.431767	0.750000	0.356323	0.182500	0.868335	84.286786	9.100906
shap	0.042832	0.750000	0.169498	0.010000	0.997583	97.548774	4.935396
topK	_50						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	0.791540	0.500000	0.431110	0.027500	0.499994	96.391078	10.602145
gradcam	0.585838	4.000000	1.152864	0.437500	0.499938	59.861858	10.602257
lime	0.764448	15.500000	9.093660	0.427500	0.493322		10.615335
shap	0.797198	0.500000	0.377006	0.020000	0.499994	97.530510	10.602145
pos_	thresh_25	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.219041	1.250000	0.177886	0.040000	0.991120	95.720335	6.327378
gradcam	0.398511	2.250000	0.973528	0.267500	0.600928	73.924376	9.142811
lime	0.676561		2.650058	0.335000	0.697021	68.592485	9.986101
shap	0.325835	0.000000	0.000000	0.020000	0.963614	97.014994	7.850671
bin							
	FF	Al	AG	G Fidl	n SP	S AI	о сомі
saliency	0.791281	0.500000	0.430915	5 0.02750	0.50027	96.42055	7 10.60155
gradcam	0.474595	7.500000	1.070762	2 0.49750	0 0.45143	7 54.12008	8 8.475080
lime	0.790285	26.000000	14.20545	5 0.68500	0.27266	7 32.02867	9 10.931619
shap	0.796341	0.500000	0.37629	5 0.02000	0.49145	7 97.48811	10.618963

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.788165	10.000000	6.286535	0.342500	0.038138	66.196693	11.292008
gradcam	0.567456	1.750000	0.520995	0.262500	0.295466	75.694391	11.139094
lime	0.685044	3.000000	1.561553	0.237500	0.311617	77.522342	11.105058
shap	0.758164	1.250000	0.592583	0.085000	0.072735	92.499200	11.285742
topK	_5						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.617889	0.750000	0.579243	0.030000	0.949986	96.632662	8.299783
gradcam	0.114764	0.250000	0.070154	0.040000	0.949974	95.877295	8.300039
lime	0.250140	0.750000	0.135246	0.135000	0.936524	89.718892	8.527748
shap	0.444995	0.250000	0.030072	0.017500	0.949986	96.534742	8.299783
topK	_				500		50140
	FF	AI		FidIn	SPS	AD	СОМР
saliency	0.775971	1.000000	0.695137	0.030000	0.699991	96.617813	10.091335
gradcam	0.425481	1.500000	0.694756	0.272500	0.699953	76.859205	10.091461
lime	0.694155	10.000000	5.252163	0.337500	0.691593	67.192280	10.118696
shap	0.763906	0.500000	0.387102	0.027500	0.699991	97.378508	10.091335
sigm	oid FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.643469	2.500000	0.838001	0.202500	0.000142	79.326670	11.295279
saliency	0.643469	2.500000	0.838001	0.202500	0.000142	79.326670 80.017202	11.295279
saliency gradcam lime	0.634957	1.750000	0.838001 0.747174 0.875570	0.202500 0.190000 0.217500	0.014194	79.326670 80.017202 78.297433	11.294890
gradcam lime	0.634957 0.647775	1.750000 2.500000	0.747174 0.875570	0.190000 0.217500	0.014194 0.007533	80.017202 78.297433	11.294890 11.295110
gradcam lime shap	0.634957	1.750000 2.500000 2.000000	0.747174	0.190000	0.014194	80.017202	11.294890
gradcam lime shap	0.634957 0.647775 0.638561	1.750000 2.500000 2.000000	0.747174 0.875570	0.190000 0.217500	0.014194 0.007533	80.017202 78.297433	11.294890 11.295110
gradcam lime shap	0.634957 0.647775 0.638561 pid_pos	1.750000 2.500000 2.0000000	0.747174 0.875570 0.676899	0.190000 0.217500 0.190000	0.014194 0.007533 0.000569	80.017202 78.297433 79.908981	11.294890 11.295110 11.295279
gradcam lime shap sigm	0.634957 0.647775 0.638561 pid_pos	1.750000 2.500000 2.000000	0.747174 0.875570 0.676899	0.190000 0.217500 0.190000 FidIn	0.014194 0.007533 0.000569	80.017202 78.297433 79.908981	11.294890 11.295110 11.295279
gradcam lime shap sigme	0.634957 0.647775 0.638561 pid_pos FF 0.641400	1.750000 2.500000 2.000000 Al 2.000000	0.747174 0.875570 0.676899 AG 0.750599	0.190000 0.217500 0.190000 FidIn 0.197500	0.014194 0.007533 0.000569 SPS 0.000071	80.017202 78.297433 79.908981 AD 79.565167	11.294890 11.295110 11.295279 COMP 11.295279
gradcam lime shap sigme saliency gradcam	0.634957 0.647775 0.638561 pid_pos FF 0.641400 0.645253	1.750000 2.500000 2.000000 - Al 2.000000 2.250000	0.747174 0.875570 0.676899 AG 0.750599 0.778206	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000	0.014194 0.007533 0.000569 SPS 0.000071 0.007431	80.017202 78.297433 79.908981 AD 79.565167 79.146000	11.294890 11.295110 11.295279 COMP 11.295279 10.504438
gradcam lime shap sigme saliency gradcam lime shap	0.634957 0.647775 0.638561 Did_pos FF 0.641400 0.645253 0.648529	1.750000 2.500000 2.000000 AI 2.000000 2.2500000 2.5000000	0.747174 0.875570 0.676899 AG 0.750599 0.778206 0.878564	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000 0.222500	0.014194 0.007533 0.000569 SPS 0.000071 0.007431 0.006348	80.017202 78.297433 79.908981 AD 79.565167 79.146000 78.271001	11.294890 11.295110 11.295279 COMP 11.295279 10.504438 11.295134
gradcam lime shap sigme saliency gradcam lime shap	0.634957 0.647775 0.638561 bid_pos FF 0.641400 0.645253 0.648529 0.638853	1.750000 2.500000 2.000000 AI 2.000000 2.2500000 2.5000000	0.747174 0.875570 0.676899 AG 0.750599 0.778206 0.878564	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000 0.222500	0.014194 0.007533 0.000569 SPS 0.000071 0.007431 0.006348	80.017202 78.297433 79.908981 AD 79.565167 79.146000 78.271001	11.294890 11.295110 11.295279 COMP 11.295279 10.504438 11.295134
gradcam lime shap sigme saliency gradcam lime shap	0.634957 0.647775 0.638561 Did_pos FF 0.641400 0.645253 0.648529 0.638853	1.750000 2.500000 2.000000 Al 2.000000 2.2500000 2.500000	0.747174 0.875570 0.676899 AG 0.750599 0.778206 0.878564 0.679504	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000 0.222500 0.192500	0.014194 0.007533 0.000569 SPS 0.000071 0.007431 0.006348 0.000291	80.017202 78.297433 79.908981 AD 79.565167 79.146000 78.271001 79.869016	11.294890 11.295110 11.295279 COMP 11.295279 10.504438 11.295134 11.295279
gradcam lime shap sigmo saliency gradcam lime shap pos_	0.634957 0.647775 0.638561 oid_pos FF 0.641400 0.645253 0.648529 0.638853 thresh_75 FF	1.750000 2.500000 2.000000 AI 2.000000 2.250000 2.500000	0.747174 0.875570 0.676899 AG 0.750599 0.778206 0.878564 0.679504	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000 0.222500 0.192500	0.014194 0.007533 0.000569 SPS 0.000071 0.007431 0.006348 0.000291	80.017202 78.297433 79.908981 AD 79.565167 79.146000 78.271001 79.869016	11.294890 11.295110 11.295279 COMP 11.295279 10.504438 11.295134 11.295279
gradcam lime shap sigme saliency gradcam lime shap pos saliency	0.634957 0.647775 0.638561 Did_pos FF 0.641400 0.645253 0.648529 0.638853 thresh_75 FF	1.750000 2.5000000 2.0000000 Al 2.0000000 2.2500000 2.5000000	0.747174 0.875570 0.676899 AG 0.750599 0.778206 0.878564 0.679504 AG 0.0000000	0.190000 0.217500 0.190000 FidIn 0.197500 0.205000 0.222500 0.192500 FidIn 0.010000	0.014194 0.007533 0.000569 SPS 0.000071 0.007431 0.006348 0.000291 SPS 0.997741	80.017202 78.297433 79.908981 AD 79.565167 79.146000 78.271001 79.869016 AD	11.294890 11.295110 11.295279 COMP 11.295279 10.504438 11.295134 11.295279 COMP 1.625156

Noisy experiments - mel model

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.711190	32.500000	0.009746	0.745000	0.127500	25.342996	2.468997
topK_30_pos	0.713284	0.500000	0.175175	0.022500	0.700006	97.727077	9.171495
minmax_pos	0.692917	0.500000	0.219268	0.100000	0.783581	92.279278	9.085023
topK_5_pos	0.684098	0.000000	0.000000	0.007500	0.949973	98.185153	7.380256
pos_thresh_50	0.124662	0.500000	0.232667	0.030000	0.998953	96.182471	2.896074
topK_50	0.712000	0.500000	0.149811	0.022500	0.500000	97.723036	9.682342
pos_thresh_25	0.401284	0.500000	0.384639	0.017500	0.992539	97.143905	5.222684
bin	0.711829	0.500000	0.155864	0.022500	0.502705	97.702287	9.676883
minmax	0.696012	4.750000	3.127126	0.102500	0.035328	89.096607	10.372436
topK_5	0.684098	0.000000	0.000000	0.007500	0.949973	98.185153	7.380256
topK_30	0.713284	0.500000	0.175175	0.022500	0.700006	97.727077	9.171495
sigmoid	0.551320	8.500000	4.458095	0.475000	0.000461	59.530889	10.375488
sigmoid_pos	0.522607	7.750000	3.453662	0.437500	0.000231	62.839514	10.375489
pos_thresh_75	0.036817	0.000000	0.000000	0.037500	0.998527	96.274690	1.169532

In [39]: display_experiment_results(experiment_results["cnn14_logmel"]["saliency_room"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.850689	27.250000	0.010742	0.685000	0.157500	31.044639	3.049938
topK_30_pos	0.850516	0.000000	0.000000	0.012500	0.700006	98.061626	9.171495
minmax_pos	0.792496	0.500000	0.211552	0.082500	0.776968	94.060062	9.124363
topK_5_pos	0.766804	0.000000	0.000000	0.020000	0.949973	97.426624	7.380256
pos_thresh_50	0.084152	0.500000	0.212758	0.017500	0.998847	97.245856	3.084981
topK_50	0.850997	0.000000	0.000000	0.012500	0.500000	98.094113	9.682342
pos_thresh_25	0.387530	0.750000	0.328547	0.025000	0.990762	96.975251	5.462471
bin	0.851018	0.000000	0.000000	0.012500	0.501807	98.102482	9.678695
minmax	0.824637	3.250000	2.295471	0.117500	0.038908	88.139321	10.371981
topK_5	0.766804	0.000000	0.000000	0.020000	0.949973	97.426624	7.380256
topK_30	0.850516	0.000000	0.000000	0.012500	0.700006	98.061626	9.171495
sigmoid	0.596879	6.000000	3.488200	0.572500	0.000517	51.145902	10.375488
sigmoid_pos	0.560616	4.750000	2.694025	0.545000	0.000259	54.838752	10.375489
pos_thresh_75	0.023657	0.000000	0.000000	0.025000	0.998631	97.021990	1.284587

In [40]: display_experiment_results(experiment_results["cnn14_logmel"]["saliency_horse"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.790323	19.250000	0.007534	0.490000	0.256250	49.701692	4.962200
topK_30_pos	0.788420	0.000000	0.000000	0.002500	0.700006	97.230655	9.171495
minmax_pos	0.769024	0.250000	0.228765	0.067500	0.774734	92.016089	9.143446
topK_5_pos	0.695200	0.500000	0.155136	0.012500	0.949973	95.898839	7.380256
pos_thresh_50	0.107027	0.500000	0.203184	0.010000	0.998757	97.487749	3.272373
topK_50	0.789539	0.000000	0.000000	0.002500	0.500000	96.983300	9.682342
pos_thresh_25	0.386120	1.000000	0.463934	0.007500	0.989099	97.536813	5.682875
bin	0.789483	0.000000	0.000000	0.002500	0.499990	96.975555	9.682347
minmax	0.774518	10.750000	7.401402	0.277500	0.040483	72.553143	10.371809
topK_5	0.695200	0.500000	0.155136	0.012500	0.949973	95.898839	7.380256
topK_30	0.788420	0.000000	0.000000	0.002500	0.700006	97.230655	9.171495
sigmoid	0.611014	3.500000	1.996095	0.555000	0.000539	56.130944	10.375488
sigmoid_pos	0.575920	3.000000	1.416806	0.512500	0.000269	61.363719	10.375489
pos_thresh_75	0.021554	0.000000	0.000000	0.012500	0.998796	96.980906	1.429625

In [41]: display_experiment_results(experiment_results["cnn14_logmel"]["gradcam_white"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.614212	22.750000	0.895524	0.607500	0.279518	41.201800	5.423072
topK_30_pos	0.507756	17.750000	0.732232	0.435000	0.470052	56.851181	6.170159
minmax_pos	0.410126	1.750000	0.942711	0.162500	0.455897	86.231142	8.169024
topK_5_pos	0.216792	9.750000	0.001232	0.220000	0.785244	78.910743	6.123868
pos_thresh_50	0.367672	6.000000	1.895025	0.245000	0.578542	77.531645	7.416078
topK_50	0.552914	5.500000	2.520131	0.292500	0.499065	72.616278	9.684207
pos_thresh_25	0.469095	9.500000	2.522458	0.367500	0.425811	64.546311	6.748737
bin	0.526246	15.750000	2.547937	0.510000	0.291736	49.573783	5.396175
minmax	0.545293	1.750000	1.096807	0.205000	0.346065	81.683006	10.148230
topK_5	0.134890	0.250000	0.061107	0.070000	0.948927	94.279909	7.400621
topK_30	0.424646	2.500000	1.210096	0.157500	0.698876	83.873959	9.175246
sigmoid	0.514549	5.250000	1.910096	0.372500	0.021900	67.793831	10.374392
sigmoid_pos	0.523618	5.500000	2.506272	0.380000	0.014240	66.116355	8.922229
pos_thresh_75	0.221480	0.500000	0.139204	0.102500	0.744058	91.551230	6.855847

In [42]: display_experiment_results(experiment_results["cnn14_logmel"]["gradcam_room"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.668329	15.500000	1.049485	0.617500	0.328206	42.246285	6.367224
topK_30_pos	0.487269	10.000000	0.239408	0.420000	0.531187	61.041883	6.973047
minmax_pos	0.423070	0.500000	0.199785	0.227500	0.443758	82.149382	8.831108
topK_5_pos	0.146072	4.500000	0.001316	0.157500	0.846876	85.622335	6.605853
pos_thresh_50	0.360350	2.750000	0.839456	0.307500	0.578900	74.603804	8.099933
topK_50	0.595938	4.500000	2.336654	0.417500	0.499191	62.563061	9.683955
pos_thresh_25	0.527204	10.500000	3.708322	0.525000	0.398001	52.277242	7.448694
bin	0.624585	16.750000	2.458265	0.645000	0.262752	37.184366	5.513788
minmax	0.553362	1.250000	0.568341	0.272500	0.331609	76.072015	10.168424
topK_5	0.077781	0.000000	0.000000	0.062500	0.948867	95.579716	7.401766
topK_30	0.383433	1.750000	0.702444	0.255000	0.698868	78.844232	9.175269
sigmoid	0.558418	3.000000	1.595462	0.535000	0.023324	57.186894	10.374343
sigmoid_pos	0.565542	3.500000	1.996931	0.542500	0.016902	56.205008	9.492769
pos_thresh_75	0.182597	0.000000	0.000000	0.135000	0.779157	89.195469	7.443469

In [43]: display_experiment_results(experiment_results["cnn14_logmel"]["gradcam_horse"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.668687	16.750000	0.851790	0.522500	0.343045	50.511042	6.658016
topK_30_pos	0.456246	8.750000	0.002277	0.285000	0.576740	73.302948	7.569022
minmax_pos	0.503738	0.750000	0.092385	0.147500	0.489186	88.137892	9.195824
topK_5_pos	0.118517	3.750000	0.000537	0.100000	0.884974	90.037609	6.899170
pos_thresh_50	0.449253	2.000000	0.546866	0.235000	0.606197	80.000784	8.682833
topK_50	0.612718	3.750000	1.824735	0.307500	0.499043	71.618280	9.684251
pos_thresh_25	0.575466	7.750000	1.807158	0.435000	0.437871	59.357193	8.634937
bin	0.646846	13.750000	2.481985	0.595000	0.311681	42.425838	6.834141
minmax	0.665791	2.250000	0.614114	0.255000	0.302349	78.446919	10.195314
topK_5	0.093737	0.250000	0.023225	0.037500	0.948990	96.102285	7.399404
topK_30	0.393378	0.500000	0.110620	0.142500	0.699018	87.259372	9.174775
sigmoid	0.586694	1.000000	0.272882	0.445000	0.045033	66.063212	10.371287
sigmoid_pos	0.594669	2.250000	0.595393	0.470000	0.024390	63.589368	9.907195
pos_thresh_75	0.251565	0.500000	0.216440	0.075000	0.799444	92.968666	7.877564

In [44]: display_experiment_results(experiment_results["cnn14_logmel"]["lime_white"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.661303	15.500000	5.588439	0.500000	0.436843	50.420955	9.111431
topK_30_pos	0.579218	10.250000	4.118558	0.360000	0.652824	64.583169	9.145879
minmax_pos	0.640144	5.500000	2.944553	0.292500	0.518474	72.856361	9.778440
topK_5_pos	0.287504	2.500000	0.941906	0.165000	0.905188	83.750265	7.976897
pos_thresh_50	0.543765	8.250000	4.268772	0.325000	0.710520	67.540012	8.939172
topK_50	0.662237	13.750000	6.133981	0.472500	0.466945	53.109298	9.745318
pos_thresh_25	0.655523	17.500000	8.751906	0.555000	0.506051	44.673501	9.432342
bin	0.698812	34.250000	9.174560	0.802500	0.187839	19.663277	8.035213
minmax	0.650651	7.500000	3.858202	0.312500	0.404169	70.803854	10.041012
topK_5	0.287504	2.500000	0.941906	0.165000	0.905188	83.750265	7.976897
topK_30	0.579632	9.750000	4.343810	0.355000	0.662899	65.145292	9.284801
sigmoid	0.557132	8.000000	3.849045	0.400000	0.015988	65.894752	10.374765
sigmoid_pos	0.555828	7.750000	3.768415	0.397500	0.014469	65.821766	10.374838
pos_thresh_75	0.408778	5.250000	2.258611	0.232500	0.833223	77.525128	8.406193

In [45]: display_experiment_results(experiment_results["cnn14_logmel"]["lime_room"])

	FF	AI	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.798876	11.000000	3.884707	0.525000	0.465679	49.757447	9.482351
topK_30_pos	0.676907	6.000000	2.684843	0.387500	0.673884	64.779027	9.252643
minmax_pos	0.756607	2.000000	0.992042	0.267500	0.571788	78.139046	9.702122
topK_5_pos	0.266320	2.000000	1.103010	0.170000	0.917428	84.912728	7.843242
pos_thresh_50	0.545555	5.000000	2.517660	0.302500	0.779319	73.168008	8.676935
topK_50	0.799205	9.750000	4.356550	0.515000	0.477792	50.985642	9.725162
pos_thresh_25	0.765974	10.750000	4.329350	0.495000	0.599181	53.205151	9.282798
bin	0.834633	22.750000	10.066187	0.822500	0.209662	21.224098	9.733605
minmax	0.772891	2.500000	0.969162	0.275000	0.402839	75.501471	10.055631
topK_5	0.266320	2.000000	1.103010	0.170000	0.917428	84.912728	7.843242
topK_30	0.676907	6.000000	2.684843	0.387500	0.673884	64.779027	9.252643
sigmoid	0.598701	3.250000	1.934571	0.502500	0.015792	56.989645	10.374776
sigmoid_pos	0.596822	3.250000	1.912979	0.505000	0.014285	57.145403	10.374840
pos_thresh_75	0.331308	2.250000	1.468846	0.195000	0.880057	81.639244	8.071825

In [46]: display_experiment_results(experiment_results["cnn14_logmel"]["lime_horse"])

	FF	Al	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.764370	19.750000	9.932483	0.655000	0.439142	38.065049	8.974500
topK_30_pos	0.662887	14.750000	8.590946	0.405000	0.672999	59.581706	9.227538
minmax_pos	0.699502	6.750000	4.104590	0.262500	0.604543	75.048172	9.633056
topK_5_pos	0.273862	4.500000	2.608519	0.205000	0.916421	82.605794	7.849365
pos_thresh_50	0.527689	10.250000	6.915780	0.317500	0.789854	70.807660	8.659089
topK_50	0.760747	21.750000	12.180873	0.640000	0.476016	39.704406	9.728505
pos_thresh_25	0.703865	15.500000	10.398968	0.512500	0.627666	50.686515	9.279216
bin	0.780193	40.000000	20.360500	0.827500	0.291061	16.939316	9.829493
minmax	0.730194	10.250000	6.102790	0.382500	0.368780	65.278803	10.106139
topK_5	0.273862	4.500000	2.608519	0.205000	0.916421	82.605794	7.849365
topK_30	0.662933	14.500000	8.590932	0.402500	0.674724	59.821911	9.250549
sigmoid	0.600107	4.000000	1.709758	0.497500	0.018723	61.679100	10.374649
sigmoid_pos	0.599394	2.750000	1.428018	0.480000	0.015101	62.498017	10.374842
pos_thresh_75	0.337981	5.250000	3.795244	0.232500	0.889431	80.521404	8.004952

In [47]: display_experiment_results(experiment_results["cnn14_logmel"]["shap_white"])

	FF	AI	AG	FidIn	SPS	AD	COMP
topK_50_pos	0.711890	0.750000	0.244811	0.022500	0.500000	97.825080	9.682342
topK_30_pos	0.712049	0.750000	0.239593	0.022500	0.700006	97.841733	9.171495
minmax_pos	0.703279	0.250000	0.133590	0.012500	0.721409	97.694101	9.358230
topK_5_pos	0.697979	0.250000	0.142631	0.010000	0.949973	97.190329	7.380256
pos_thresh_50	0.153013	1.000000	0.414723	0.037500	0.996068	96.786666	4.462922
topK_50	0.711890	0.750000	0.244811	0.022500	0.500000	97.825080	9.682342
pos_thresh_25	0.672607	0.000000	0.000000	0.007500	0.949855	97.280186	7.272439
bin	0.711994	0.750000	0.248285	0.022500	0.488620	97.833374	9.704824
minmax	0.707674	0.000000	0.000000	0.017500	0.081260	97.210558	10.363955
topK_5	0.697979	0.250000	0.142631	0.010000	0.949973	97.190329	7.380256
topK_30	0.712049	0.750000	0.239593	0.022500	0.700006	97.841733	9.171495
sigmoid	0.479692	5.000000	1.995513	0.380000	0.001059	69.050048	10.375487
sigmoid_pos	0.479328	5.000000	1.980919	0.382500	0.000543	68.713899	10.375488
pos_thresh_75	0.014333	0.000000	0.000000	0.035000	0.998922	96.935569	1.893806

In [48]: display_experiment_results(experiment_results["cnn14_logmel"]["shap_room"])

	FF	Al	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.851707	0.000000	0.000000	0.012500	0.500000	98.118999	9.682342
topK_30_pos	0.848558	0.000000	0.000000	0.012500	0.700006	98.169867	9.171495
minmax_pos	0.827403	0.000000	0.000000	0.015000	0.721625	98.417283	9.356942
topK_5_pos	0.824963	0.000000	0.000000	0.020000	0.949973	97.573005	7.380256
pos_thresh_50	0.094349	0.000000	0.000000	0.015000	0.996874	97.482737	4.248237
topK_50	0.851707	0.000000	0.000000	0.012500	0.500000	98.118999	9.682342
pos_thresh_25	0.736986	0.000000	0.000000	0.002500	0.957153	98.339161	7.097326
bin	0.851762	0.000000	0.000000	0.012500	0.486988	98.107902	9.707996
minmax	0.844402	0.000000	0.000000	0.032500	0.066837	97.179150	10.367339
topK_5	0.824963	0.000000	0.000000	0.020000	0.949973	97.573005	7.380256
topK_30	0.848558	0.000000	0.000000	0.012500	0.700006	98.169867	9.171495
sigmoid	0.506164	3.000000	1.742738	0.487500	0.001007	61.328933	10.375487
sigmoid_pos	0.507642	3.250000	1.760654	0.487500	0.000519	61.117844	10.375488
pos_thresh_75	0.002502	0.000000	0.000000	0.017500	0.998952	97.195290	1.867501

In [49]: display_experiment_results(experiment_results["cnn14_logmel"]["shap_horse"])

	FF	Al	AG	FidIn	SPS	AD	СОМР
topK_50_pos	0.790697	0.250000	0.000001	0.005000	0.498750	96.701207	9.658136
topK_30_pos	0.783312	0.000000	0.000000	0.005000	0.700006	97.136149	9.171495
minmax_pos	0.753468	0.000000	0.000000	0.007500	0.727941	97.820285	9.333287
topK_5_pos	0.731777	0.500000	0.035973	0.022500	0.949973	95.778591	7.380256
pos_thresh_50	0.105702	0.500000	0.183802	0.017500	0.996972	97.933303	4.249547
topK_50	0.790343	0.000000	0.000000	0.002500	0.500000	96.830049	9.682342
pos_thresh_25	0.566562	0.250000	0.056329	0.025000	0.961684	96.388800	6.980273
bin	0.790175	0.000000	0.000000	0.005000	0.488257	96.767103	9.705524
minmax	0.788614	0.500000	0.111171	0.017500	0.067695	97.039444	10.367169
topK_5	0.731777	0.500000	0.035973	0.022500	0.949973	95.778591	7.380256
topK_30	0.783312	0.000000	0.000000	0.005000	0.700006	97.136149	9.171495
sigmoid	0.524772	2.000000	0.652221	0.415000	0.001090	68.324628	10.375487
sigmoid_pos	0.526666	2.000000	0.657394	0.422500	0.000559	68.180132	10.375488
pos_thresh_75	0.003826	0.000000	0.000000	0.020000	0.998917	97.433498	1.839846

Noisy experiments per mask - mel model

In [50]: display_experiment_results(mask_experiment_results["cnn14_logmel"]["white"])

FF ΑI AG FidIn SPS AD COMP saliency 0.711190 32.500000 0.009746 0.745000 0.127500 25.342996 2.468997 gradcam 0.614212 22.750000 0.895524 0.607500 0.279518 41.201800 5.423072 **lime** 0.661303 15.500000 **5.588439** 0.500000 0.436843 50.420955 9.111431 shap 0.711890 0.750000 0.244811 **0.022500 0.500000 97.825080 9.682342** --- topK_30_pos ---ΑI AG FidIn SPS COMP saliency 0.713284 0.500000 0.175175 0.022500 0.700006 97.727077 9.171495

 saliency
 0.713284
 0.500000
 0.175175
 0.022500
 0.700006
 97.727077
 9.171495

 gradcam
 0.507756
 17.750000
 0.732232
 0.435000
 0.470052
 56.851181
 6.170159

 lime
 0.579218
 10.250000
 4.118558
 0.360000
 0.652824
 64.583169
 9.145879

 shap
 0.712049
 0.750000
 0.239593
 0.022500
 0.700006
 97.841733
 9.171495

--- minmax_pos ---

--- topK_50_pos ---

	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.692917	0.500000	0.219268	0.100000	0.783581	92.279278	9.085023
gradcam	0.410126	1.750000	0.942711	0.162500	0.455897	86.231142	8.169024
lime	0.640144	5.500000	2.944553	0.292500	0.518474	72.856361	9.778440
shap	0.703279	0.250000	0.133590	0.012500	0.721409	97.694101	9.358230
topK	_5_pos						
	FF 0.604000	Al	AG	FidIn	SPS	AD	COMP
saliency	0.684098 0.216792	0.000000 9.750000	0.000000	0.007500	0.949973	98.185153 78.910743	7.380256 6.123868
gradcam	0.216792	2.500000	0.001232	0.165000	0.765244	83.750265	7.976897
shap	0.697979	0.250000	0.142631	0.010000	0.949973	97.190329	7.380256
			0.112001	0.01000		37.130323	1.500250
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.124662	0.500000	0.232667	0.030000	0.998953	96.182471	2.896074
gradcam	0.367672	6.000000	1.895025	0.245000	0.578542	77.531645	7.416078
lime	0.543765	8.250000	4.268772	0.325000	0.710520	67.540012	8.939172
shap	0.153013	1.000000	0.414723	0.037500	0.996068	96.786666	4.462922
topK	_						
	FF	AI	AG	FidIn	SPS		COMP
saliency	0.712000	0.500000	0.149811	0.022500	0.500000		9.682342
gradcam	0.552914	5.500000	2.520131	0.292500	0.499065 0.466945		9.684207
lime	0.662237	13.750000 0.750000	6.133981 0.244811	0.472500	0.500000		9.745318 9.682342
shap		0.750000	0.244011	0.022500	0.500000	97.023080	9.002342
P03_	CIII C311_23						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	FF 0.401284	AI 0.500000	AG 0.384639	FidIn 0.017500			COMP 5.222684
saliency gradcam							
	0.401284	0.500000	0.384639	0.017500	0.992539	97.143905 64.546311	5.222684
gradcam	0.401284 0.469095	0.500000 9.500000	0.384639 2.522458	0.017500 0.367500	0.992539	97.143905 64.546311 44.673501	5.222684 6.748737
gradcam	0.401284 0.469095 0.655523 0.672607	0.500000 9.500000 17.500000	0.384639 2.522458 8.751906	0.017500 0.367500 0.555000 0.007500	0.992539 0.425811 0.506051 0.949855	97.143905 64.546311 44.673501	6.748737 9.432342
gradcam lime shap	0.401284 0.469095 0.655523 0.672607	0.500000 9.500000 17.500000 0.000000	0.384639 2.522458 8.751906 0.000000	0.017500 0.367500 0.555000 0.007500	0.992539 0.425811 0.506051 0.949855	97.143905 64.546311 44.673501 97.280186	5.222684 6.748737 9.432342 7.272439
gradcam lime shap bin	0.401284 0.469095 0.655523 0.672607 FF 0.711829	0.500000 9.500000 17.500000 0.000000 Al	0.384639 2.522458 8.751906 0.000000 AG 0.155864	0.017500 0.367500 0.555000 0.007500 FidIn	0.992539 0.425811 0.506051 0.949855 SPS 0.502705	97.143905 64.546311 44.673501 97.280186 AD	5.222684 6.748737 9.432342 7.272439 COMP 9.676883
gradcam lime shap bin saliency gradcam	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.510000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175
gradcam lime shap bin saliency gradcam lime	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 34.250000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.510000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213
gradcam lime shap bin saliency gradcam lime shap	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.510000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213
gradcam lime shap bin saliency gradcam lime	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 34.250000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.510000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213
gradcam lime shap bin saliency gradcam lime shap	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000 34.250000 0.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.510000 0.802500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824
gradcam lime shap bin saliency gradcam lime shap minm	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 0.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824
gradcam lime shap bin saliency gradcam lime shap minm	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 0.750000 Al 4.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn 0.102500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 0.750000 Al 4.750000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn 0.102500 0.205000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000 0.750000 AI 4.750000 1.750000 7.500000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn 0.102500 0.205000 0.312500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam lime shap	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000 0.750000 AI 4.750000 1.750000 7.500000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn 0.102500 0.205000 0.312500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam lime shap	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000 0.750000 1.750000 7.500000 0.000000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202 0.000000	0.017500 0.367500 0.555000 0.007500 FidIn 0.022500 0.802500 FidIn 0.102500 0.205000 0.312500 0.017500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169 0.081260	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854 97.210558	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012 10.363955
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam lime shap topK	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674 5 FF 0.684098 0.134890	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 0.750000 1.750000 7.500000 Al 0.0000000 Al 0.0000000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202 0.000000 AG 0.0000000	0.017500 0.367500 0.367500 0.007500 FidIn 0.022500 0.802500 0.022500 FidIn 0.102500 0.205000 0.312500 0.017500 FidIn 0.007500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169 0.081260 SPS	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854 97.210558 AD 98.185153 94.279909	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012 10.363955 COMP
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam lime shap topK	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674 5 FF 0.684098 0.134890 0.287504	0.500000 9.500000 17.500000 0.000000 AI 0.500000 15.750000 0.750000 1.750000 7.500000 AI 0.000000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202 0.000000 AG 0.0000000	0.017500 0.367500 0.367500 0.0555000 0.007500 FidIn 0.022500 0.022500 0.017500 FidIn 0.007500 0.017500 0.077000 0.165000	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169 0.081260 SPS 0.949973 0.948927 0.905188	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854 97.210558 AD 98.185153	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012 10.363955 COMP 7.380256
gradcam lime shap bin saliency gradcam lime shap minm saliency gradcam lime shap topK	0.401284 0.469095 0.655523 0.672607 FF 0.711829 0.526246 0.698812 0.711994 ax FF 0.696012 0.545293 0.650651 0.707674 _5 FF 0.684098 0.134890 0.287504 0.697979	0.500000 9.500000 17.500000 0.000000 Al 0.500000 15.750000 0.750000 1.750000 7.500000 Al 0.0000000 Al 0.0000000	0.384639 2.522458 8.751906 0.000000 AG 0.155864 2.547937 9.174560 0.248285 AG 3.127126 1.096807 3.858202 0.000000 AG 0.0000000	0.017500 0.367500 0.367500 0.007500 FidIn 0.022500 0.802500 0.022500 FidIn 0.102500 0.205000 0.312500 0.017500 FidIn 0.007500	0.992539 0.425811 0.506051 0.949855 SPS 0.502705 0.291736 0.187839 0.488620 SPS 0.035328 0.346065 0.404169 0.081260 SPS 0.949973 0.948927	97.143905 64.546311 44.673501 97.280186 AD 97.702287 49.573783 19.663277 97.833374 AD 89.096607 81.683006 70.803854 97.210558 AD 98.185153 94.279909	5.222684 6.748737 9.432342 7.272439 COMP 9.676883 5.396175 8.035213 9.704824 COMP 10.372436 10.148230 10.041012 10.363955 COMP 7.380256 7.400621

		FF	Al	AG	FidIn	SPS	AD	СОМР	
	saliency	0.713284	0.500000	0.175175	0.022500	0.700006	97.727077	9.171495	
	gradcam	0.424646	2.500000	1.210096	0.157500	0.698876	83.873959	9.175246	
	lime	0.579632	9.750000	4.343810	0.355000	0.662899	65.145292	9.284801	
	shap	0.712049	0.750000	0.239593	0.022500	0.700006	97.841733	9.171495	
	sigm	oid							
		FF	Al	AG	FidIn	SPS	AD	COMP	
	saliency	0.551320	8.500000	4.458095	0.475000	0.000461	59.530889	10.375488	
	gradcam	0.514549	5.250000	1.910096	0.372500	0.021900	67.793831	10.374392	
	lime	0.557132	8.000000	3.849045	0.400000	0.015988	65.894752	10.374765	
	shap	0.479692	5.000000	1.995513	0.380000	0.001059	69.050048	10.375487	
	sigm	oid_pos							
		FF	Al	AG	FidIn	SPS	AD	СОМР	
	saliency	0.522607	7.750000	3.453662	0.437500	0.000231	62.839514	10.375489	
	gradcam	0.523618	5.500000	2.506272	0.380000	0.014240	66.116355	8.922229	
	lime	0.555828	7.750000	3.768415	0.397500	0.014469	65.821766	10.374838	
	shap	0.479328	5.000000	1.980919	0.382500	0.000543	68.713899	10.375488	
	nos	pos_thresh_75							
	p03_	_		۸۵	Eidln	CDC	AD	COMP	
		FF	Al	AG	FidIn	SPS	AD	COMP	
	saliency	FF 0.036817	AI 0.000000	0.000000	0.037500	0.998527	96.274690	1.169532	
	saliency	0.036817 0.221480	AI 0.000000 0.500000	0.000000 0.139204	0.037500 0.102500	0.998527 0.744058	96.274690 91.551230	1.169532 6.855847	
	saliency gradcam lime	0.036817 0.221480 0.408778	AI 0.000000 0.500000 5.250000	0.000000 0.139204 2.258611	0.037500 0.102500 0.232500	0.998527 0.744058 0.833223	96.274690 91.551230 77.525128	1.169532 6.855847 8.406193	
	saliency	0.036817 0.221480	AI 0.000000 0.500000	0.000000 0.139204	0.037500 0.102500	0.998527 0.744058	96.274690 91.551230	1.169532 6.855847	
In [51]	saliency gradcam lime shap	FF 0.036817 0.221480 0.408778 0.014333	Al 0.000000 0.500000 0.0000000	0.000000 0.139204 2.258611 0.000000	0.037500 0.102500 0.232500 0.035000	0.998527 0.744058 0.833223 0.998922	96.274690 91.551230 77.525128	1.169532 6.855847 8.406193 1.893806	
In [51]	saliency gradcam lime shap	FF 0.036817 0.221480 0.408778 0.014333	Al 0.000000 0.500000 0.5250000 0.000000 o.t_results(0.000000 0.139204 2.258611 0.000000	0.037500 0.102500 0.232500 0.035000	0.998527 0.744058 0.833223 0.998922	96.274690 91.551230 77.525128 96.935569	1.169532 6.855847 8.406193 1.893806	
In [51]	saliency gradcam lime shap	FF 0.036817 0.221480 0.408778 0.014333	Al 0.000000 0.500000 0.5250000 0.000000 o.t_results(0.000000 0.139204 2.258611 0.000000	0.037500 0.102500 0.232500 0.035000 riment_res	0.998527 0.744058 0.833223 0.998922 ults["cnn	96.274690 91.551230 77.525128 96.935569 14_logmel"]	1.169532 6.855847 8.406193 1.893806 ["room"])	
In [51]	saliency gradcam lime shap	FF 0.036817 0.221480 0.408778 0.014333 '_experimer _50_pos	Al 0.000000 0.500000 0.000000 0.000000	0.000000 0.139204 2.258611 0.000000 (mask_expe	0.037500 0.102500 0.232500 0.035000 riment_res	0.998527 0.744058 0.833223 0.998922 ults["cnn.	96.274690 91.551230 77.525128 96.935569 14_logmel"]	1.169532 6.855847 8.406193 1.893806 ["room"])	
In [51]	saliency gradcam lime shap display	FF 0.036817 0.221480 0.408778 0.014333 (_experimer50_posFF	Al 0.000000 0.500000 0.5250000 0.000000 o.t_results(0.000000 0.139204 2.258611 0.000000 (mask_expe	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000	0.998527 0.744058 0.833223 0.998922 cults ["cnn:	96.274690 91.551230 77.525128 96.935569 14_logmel"] AD 31.044639	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP	
In [51]	saliency gradcam lime shap display topK	FF 0.036817 0.221480 0.408778 0.014333 '_experimer _50_pos FF 0.850689	Al 0.000000 0.500000 0.000000 0.000000 0.000000 Al 27.250000	0.000000 0.139204 2.258611 0.000000 (mask_expe AG 0.010742 1.049485	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500	0.998527 0.744058 0.833223 0.998922 cults ["cnn:	96.274690 91.551230 77.525128 96.935569 14_logmel"] AD 31.044639 42.246285	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224	
In [51]	saliency gradcam lime shap display topK saliency gradcam	FF 0.036817 0.221480 0.408778 0.014333	Al 0.000000 0.500000 0.5250000 0.000000 0.000000 1t_results(27.250000 15.500000	0.000000 0.139204 2.258611 0.000000 (mask_expe AG 0.010742 1.049485 3.884707	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500 0.525000	0.998527 0.744058 0.833223 0.998922 cults["cnn: SPS 0.157500 0.328206 0.465679	96.274690 91.551230 77.525128 96.935569 14_logme1"] AD 31.044639 42.246285 49.757447	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224 9.482351	
In [51]	saliency gradcam lime shap display topK saliency gradcam lime shap	FF 0.036817 0.221480 0.408778 0.014333 /_experimer _50_pos FF 0.850689 0.668329 0.798876 0.851707 _30_pos	Al 0.000000 0.500000 0.500000 0.000000 0.000000 11.000000 0.000000 0.000000 0.000000 0.000000	0.000000 0.139204 2.258611 0.000000 (mask_expe AG 0.010742 1.049485 3.884707 0.000000	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500 0.525000	0.998527 0.744058 0.833223 0.998922 cults ["cnn: SPS 0.157500 0.328206 0.465679 0.500000	96.274690 91.551230 77.525128 96.935569 14_logme1"] AD 31.044639 42.246285 49.757447	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224 9.482351	
In [51]	saliency gradcam lime shap display topK saliency gradcam lime shap topK	FF 0.036817 0.221480 0.408778 0.014333 (_experimer _50_pos FF 0.850689 0.668329 0.798876 0.851707 _30_pos FF	Al 0.000000 0.500000 0.000000 15.500000 15.500000 15.500000 1.000000	0.000000 0.139204 2.258611 0.000000 (mask_expe AG 0.010742 1.049485 3.884707 0.000000	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500 0.525000 FidIn	0.998527 0.744058 0.833223 0.998922 cults["cnn: SPS 0.157500 0.328206 0.465679 0.500000 SPS	96.274690 91.551230 77.525128 96.935569 14_logme1"] AD 31.044639 42.246285 49.757447 98.118999	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224 9.482351 9.682342	
In [51]	saliency gradcam lime shap topK saliency gradcam lime shap topK	FF 0.036817 0.221480 0.408778 0.014333 7_experimer _50_pos FF 0.850689 0.668329 0.798876 0.851707 _30_pos FF 0.850516	AI 0.000000 0.500000 5.250000 0.000000 11.000000 11.000000 AI 0.000000	0.000000 0.139204 2.258611 0.000000 mask_expe AG 0.010742 1.049485 3.884707 0.000000 AG 0.0000000	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500 0.525000 FidIn 0.012500	0.998527 0.744058 0.833223 0.998922 cults ["cnn: SPS 0.157500 0.328206 0.465679 0.500000 SPS 0.700006	96.274690 91.551230 77.525128 96.935569 14_logme1"] AD 31.044639 42.246285 49.757447 98.118999 AD 98.061626	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224 9.482351 9.682342 COMP	
In [51]	saliency gradcam lime shap display topK saliency gradcam lime shap topK	FF 0.036817 0.221480 0.408778 0.014333 (_experimer _50_pos FF 0.850689 0.668329 0.798876 0.851707 _30_pos FF	Al 0.000000 0.500000 0.000000 15.500000 15.500000 15.500000 1.000000	0.000000 0.139204 2.258611 0.000000 (mask_expe AG 0.010742 1.049485 3.884707 0.000000	0.037500 0.102500 0.232500 0.035000 riment_res FidIn 0.685000 0.617500 0.525000 FidIn 0.012500 0.420000	0.998527 0.744058 0.833223 0.998922 cults ["cnn: SPS 0.157500 0.328206 0.465679 0.500000 SPS 0.700006	96.274690 91.551230 77.525128 96.935569 14_logme1"] AD 31.044639 42.246285 49.757447 98.118999 AD 98.061626	1.169532 6.855847 8.406193 1.893806 ["room"]) COMP 3.049938 6.367224 9.482351 9.682342 COMP	

0.000000 0.000000 0.012500 0.700006 **98.169867** 9.171495 **shap** 0.848558 --- minmax_pos ---ΑI AG FidIn SPS COMP **saliency** 0.792496 0.500000 0.211552 0.082500 **0.776968** 94.060062 9.124363 **gradcam 0.423070** 0.500000 0.199785 0.227500 **0.443758** 82.149382 **8.831108** 0.756607 **2.000000 0.992042 0.267500** 0.571788 **78.139046** 9.702122
 shap
 0.827403
 0.000000
 0.000000
 0.015000
 0.721625
 98.417283
 9.356942 --- topK_5_pos ---FidIn COMP ΑI AG SPS AD saliency 0.766804 **0.000000 0.000000 0.020000 0.949973** 97.426624 7.380256 gradcam 0.146072 4.500000 0.001316 0.157500 0.846876 85.622335 **6.605853** 0.266320 2.000000 **1.103010 0.170000** 0.917428 **84.912728 7.843242** shap 0.824963 0.000000 0.000000 0.020000 0.949973 97.573005 7.380256 --- pos_thresh_50 ---

	FF	Al	AG	FidIn	SPS	AD	COMP
saliency	0.084152	0.500000	0.212758	0.017500	0.998847	97.245856	3.084981
gradcam	0.360350	2.750000	0.839456	0.307500	0.578900	74.603804	8.099933
lime	0.545555	5.000000	2.517660	0.302500	0.779319	73.168008	8.676935
shap	0.094349	0.000000	0.000000	0.015000	0.996874	97.482737	4.248237
topK	_50				'		
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.850997	0.000000	0.000000	0.012500	0.500000	98.094113	9.682342
gradcam	0.595938	4.500000	2.336654	0.417500	0.499191	62.563061	9.683955
lime	0.799205	9.750000	4.356550	0.515000	0.477792	50.985642	9.725162
shap	0.851707	0.000000	0.000000	0.012500	0.500000	98.118999	9.682342
pos_	thresh_25	AI	AG	FidIn	SPS	AD	СОМР
colionar							
saliency	0.387530	0.750000	0.328547 3.708322	0.025000	0.990762		
gradcam	0.527204	10.500000	4.329350	0.525000	0.599181	52.277242 53.205151	
shap	0.736986	0.000000	0.000000	0.493000	0.957153		
bin		0.000000	0.000000	0.002300	0.937133	96.339101	7.097320
5111	FF	AI	AG	5 Fidli	n SP	S A	р сомр
saliency	0.851018	0.000000	0.000000	0.01250	0.50180	7 98.10248	2 9.678695
gradcam	0.624585	16.750000	2.458265	5 0.64500	0 0.26275	2 37.18436	6 5.513788
lime	0.834633	22.750000	10.066187	7 0.82250	0.20966	2 21.22409	8 9.733605
shap	0.851762	0.000000	0.000000	0.01250	0.48698	8 98.10790	2 9.707996
minm	ax						
	FF	Al	AG	FidIn	SPS	AD	СОМР
saliency	FF 0.824637	3.250000	AG 2.295471	FidIn 0.117500	SPS 0.038908	AD 88.139321	COMP 10.371981
saliency gradcam							
	0.824637	3.250000	2.295471	0.117500	0.038908	88.139321	10.371981
gradcam	0.824637 0.553362	3.250000 1.250000	2.295471 0.568341	0.117500 0.272500	0.038908 0.331609	88.139321 76.072015	10.371981 10.168424
gradcam lime	0.824637 0.553362 0.772891 0.844402 _5	3.250000 1.250000 2.500000 0.000000	2.295471 0.568341 0.969162 0.000000	0.117500 0.272500 0.275000 0.032500	0.038908 0.331609 0.402839 0.066837	88.139321 76.072015 75.501471 97.179150	10.371981 10.168424 10.055631 10.367339
gradcam lime shap	0.824637 0.553362 0.772891 0.844402 5 FF	3.250000 1.250000 2.500000 0.000000	2.295471 0.568341 0.969162 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn	0.038908 0.331609 0.402839 0.066837	88.139321 76.072015 75.501471 97.179150	10.371981 10.168424 10.055631 10.367339
gradcam lime shap topK	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804	3.250000 1.250000 2.500000 0.000000 Al	2.295471 0.568341 0.969162 0.000000 AG 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000	0.038908 0.331609 0.402839 0.066837 SPS 0.949973	88.139321 76.072015 75.501471 97.179150 AD 97.426624	10.371981 10.168424 10.055631 10.367339 COMP 7.380256
gradcam lime shap topK saliency gradcam	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781	3.250000 1.250000 2.500000 0.000000 Al 0.0000000 0.0000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766
gradcam lime shap topK saliency gradcam lime	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320	3.250000 1.250000 2.500000 0.000000 Al 0.000000 0.000000 2.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 0.000000 1.103010	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242
gradcam lime shap topk saliency gradcam lime shap	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963	3.250000 1.250000 2.500000 0.000000 Al 0.0000000 0.0000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766
gradcam lime shap topK saliency gradcam lime	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 0.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500 0.170000	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256
gradcam lime shap topK saliency gradcam lime shap topK	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963	3.250000 1.250000 2.500000 0.000000 Al 0.000000 0.000000 2.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 0.000000 1.103010	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500 0.170000 FidIn	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256
gradcam lime shap topk saliency gradcam lime shap	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 0.0000000 Al	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.062500 0.170000	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256
gradcam lime shap topK saliency gradcam lime shap topK	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516 0.383433	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 1.750000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 O.0000000 O.0000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.949973 SPS 0.700006 0.698868	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516 0.383433 0.676907 0.848558	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 Al 0.000000 1.750000 6.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 O.000000 O.000000 AG 0.000000 AG 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.255000 0.387500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime shap	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516 0.383433 0.676907 0.848558	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 Al 0.000000 1.750000 6.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 O.000000 O.000000 AG 0.000000 AG 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.255000 0.387500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643
gradcam lime shap topK saliency gradcam lime shap topK gradcam lime shap	0.824637 0.553362 0.772891 0.844402 _5 FF 0.766804 0.077781 0.266320 0.824963 _30 FF 0.850516 0.383433 0.676907 0.848558	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 6.000000 0.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 4G 0.000000 0.702444 2.684843 0.000000	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.255000 0.387500 0.012500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884 0.700006	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027 98.169867	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643 9.171495
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime shap sigm	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516 0.383433 0.676907 0.848558 oid FF	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 1.750000 6.000000 Al	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 AG 0.000000 AG 0.000000 AG 0.000000 AG AG AG AG	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.255000 0.387500 0.012500 FidIn	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.949973 SPS 0.700006 0.698868 0.673884 0.700006 SPS	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027 98.169867 AD	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643 9.171495 COMP
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime shap sigm	0.824637 0.553362 0.772891 0.844402 _5 FF 0.766804 0.077781 0.266320 0.824963 _30 FF 0.850516 0.383433 0.676907 0.848558 oid FF	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 1.750000 6.000000 Al 6.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 AG 0.000000 AG 3.488200	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.387500 0.012500 FidIn 0.572500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884 0.700006 SPS 0.0000517	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027 98.169867 AD 51.145902	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643 9.171495 COMP 10.375488
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime shap sigm saliency gradcam	0.824637 0.553362 0.772891 0.844402 5 FF 0.766804 0.077781 0.266320 0.824963 30 FF 0.850516 0.383433 0.676907 0.848558 oid FF 0.596879 0.558418	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 1.750000 6.000000 Al 6.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 AG 0.702444 2.684843 0.000000 AG 3.488200 1.595462	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.255000 0.387500 0.012500 FidIn 0.572500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884 0.700006 SPS 0.000517 0.023324	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027 98.169867 AD 51.145902 57.186894	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643 9.171495 COMP 10.375488 10.374343
gradcam lime shap topK saliency gradcam lime shap topK saliency gradcam lime shap sigm saliency gradcam lime shap	0.824637 0.553362 0.772891 0.844402 _5 FF 0.766804 0.077781 0.266320 0.824963 _30 FF 0.850516 0.383433 0.676907 0.848558 oid FF 0.596879 0.558418 0.598701	3.250000 1.250000 2.500000 0.000000 Al 0.000000 2.000000 Al 0.000000 1.750000 6.000000 Al 6.000000 3.000000 3.250000 3.000000	2.295471 0.568341 0.969162 0.000000 AG 0.000000 1.103010 0.000000 AG 0.000000 AG 0.000000 AG 3.488200 1.595462 1.934571	0.117500 0.272500 0.275000 0.032500 FidIn 0.020000 0.170000 0.020000 FidIn 0.012500 0.387500 0.012500 FidIn 0.572500 0.535000 0.502500	0.038908 0.331609 0.402839 0.066837 SPS 0.949973 0.948867 0.917428 0.949973 SPS 0.700006 0.698868 0.673884 0.700006 SPS 0.000517 0.023324 0.015792	88.139321 76.072015 75.501471 97.179150 AD 97.426624 95.579716 84.912728 97.573005 AD 98.061626 78.844232 64.779027 98.169867 AD 51.145902 57.186894 56.989645	10.371981 10.168424 10.055631 10.367339 COMP 7.380256 7.401766 7.843242 7.380256 COMP 9.171495 9.175269 9.252643 9.171495 COMP 10.375488 10.374376

FF										
saliency 0.560516 4.750000 2.694025 0.545000 0.000259 54.838752 10.375489 gradcam 0.565542 3.500000 1.996931 0.542500 0.016902 56.205008 9.492769 lime 0.596822 3.250000 1.912979 0.505000 0.014285 57.145403 10.375484 FF AI AG Fidln SPS AD COMP saliency 0.023657 0.00000 0.00000 0.025000 0.998631 97.021990 1.284587 gradcam 0.182597 0.00000 0.00000 0.035000 0.779157 89.195469 7.443469 lime 0.331308 2.250000 1.468846 0.195000 0.880057 81.639244 8.071825 shap 0.002502 0.000000 1.000000 0.017500 0.998952 97.195290 1.867501 In [52]: display_experiment_results(mask_experiment_results("cnal, experiment_results("cnal, experiment_results("cnal, experiment_results("cnal, experiment_results("cnal, experiment_results("cnal, experiment_results("cn										
			FF	Al	AG	FidIn	SPS	AD	СОМР	
lime		saliency	0.560616	4.750000	2.694025	0.545000	0.000259	54.838752	10.375489	
shap 0.507642 3.250000 1.760654 0.487500 0.000519 61.117844 10.375488 FF AI AG FidIn SPS AD COMP saliency 0.023657 0.000000 0.000000 0.035000 0.998631 97.021990 1.284587 gradcam 0.182597 0.000000 0.000000 0.135000 0.779157 89.195469 7.443469 lime 0.331308 2.250000 1.468846 0.195000 0.880057 81.639244 8.071825 shap 0.002502 0.00000 0.00000 0.017500 0.998952 97.195290 1.867501 Image: color colo		gradcam	0.565542	3.500000	1.996931	0.542500	0.016902	56.205008	9.492769	
Saliency 0.023657 0.000000 0.000000 0.025000 0.998631 97.021990 1.284587		lime	0.596822	3.250000	1.912979	0.505000	0.014285	57.145403	10.374840	
FF		shap	0.507642	3.250000	1.760654	0.487500	0.000519	61.117844	10.375488	
saliency 0.023657 0.000000 0.000000 0.025000 0.998631 97.021990 1.284587 gradcam 0.182597 0.000000 0.000000 0.135000 0.779157 89.195469 7.443469 lime 0.331308 2.250000 1.468846 0.195000 0.880057 81.639244 8.071825 shap 0.002502 0.00000 0.00000 0.017500 0.998952 97.195290 1.867501 FF AI AG FidIn SPS AD COMP saliency 0.790323 19.250000 0.007534 0.490000 0.256250 49.701692 4.962200 gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 FF		pos_	thresh_75							
gradcam 0.182597 0.000000 0.000000 0.135000 0.779157 89.195469 7.443469 lime 0.331308 2.250000 1.468846 0.195000 0.880057 81.639244 8.071825 shap 0.002502 0.000000 0.000000 0.017500 0.998952 97.195290 1.867501 [52]: display_experiment_results(mask_experiment_results["cnn14_logme1"]["horse"]) topk_50_pos FF			FF	Al	AG	FidIn	SPS	AD	СОМР	
lime		saliency	0.023657	0.000000	0.000000	0.025000	0.998631	97.021990	1.284587	
shap 0.002502 0.000000 0.000000 0.017500 0.998952 97.195290 1.867501 n [52]: display_experiment_results(mask_experiment_results["cnn14_logmel"]["horse"]) topK_50_pos FF AI AG FidIn SPS AD COMP saliency 0.790323 19.250000 0.007534 0.490000 0.256250 49.701692 4.962200 gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 topK_30_pos FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.0002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000		gradcam	0.182597	0.000000	0.000000	0.135000	0.779157	89.195469	7.443469	
		lime	0.331308	2.250000	1.468846	0.195000	0.880057	81.639244	8.071825	
FF AI AG FidIn SPS AD COMP saliency 0.790323 19.250000 0.007534 0.490000 0.256250 49.701692 4.962200 gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 topK_30_pos FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 minmax_pos FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF AI AG FidIn SPS AD COMP		shap	0.002502	0.000000	0.000000	0.017500	0.998952	97.195290	1.867501	
FF AI AG FidIn SPS AD COMP saliency 0.790323 19.250000 0.007534 0.490000 0.256250 49.701692 4.962200 gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 topK_30_pos FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 minmax_pos FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF AI AG FidIn SPS AD COMP	ı [52]	display	experimer	nt results	(mask expe	riment res	sults["cnn:	14 logmel"]	["horse"])	
saliency 0.790323 19.250000 0.007534 0.490000 0.256250 49.701692 4.962200 gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000				_	· · · = · · ·			0 - 1		
gradcam 0.668687 16.750000 0.851790 0.522500 0.343045 50.511042 6.658016 lime 0.764370 19.750000 9.932483 0.655000 0.439142 38.065049 8.974500 shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 <			FF	AI	AG	FidIn	SPS	AD	СОМР	
lime		saliency	0.790323	19.250000	0.007534	0.490000	0.256250	49.701692	4.962200	
shap 0.790697 0.250000 0.000001 0.005000 0.498750 96.701207 9.658136 FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.000000 0.002500 0.700006 97.230655 9.171495 gradcam 0.456246 8.750000 0.00227 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 4.104590 0.262500 0.604543 75.048172 9.633056 sh		gradcam	0.668687	16.750000	0.851790	0.522500	0.343045	50.511042	6.658016	
FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.000000 0.002500 0.700006 97.230655 9.171495 gradcam 0.456246 8.750000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 minmax_pos FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF AI AG FidIn SPS AD COMP		lime	0.764370	19.750000	9.932483	0.655000	0.439142	38.065049	8.974500	
FF AI AG FidIn SPS AD COMP saliency 0.788420 0.000000 0.000000 0.002500 0.700006 97.230655 9.171495 gradcam 0.456246 8.750000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 ***Saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 ***Fig.** <th></th> <th>shap</th> <th>0.790697</th> <th>0.250000</th> <th>0.000001</th> <th>0.005000</th> <th>0.498750</th> <th>96.701207</th> <th>9.658136</th>		shap	0.790697	0.250000	0.000001	0.005000	0.498750	96.701207	9.658136	
saliency 0.788420 0.000000 0.000000 0.002500 0.700006 97.230655 9.171495 gradcam 0.456246 8.750000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287		topK	_30_pos	-						
gradcam 0.456246 8.750000 0.002277 0.285000 0.576740 73.302948 7.569022 lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF Al AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287			FF	Al	AG	FidIn	SPS	AD	СОМР	
lime 0.662887 14.750000 8.590946 0.405000 0.672999 59.581706 9.227538 shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287		saliency	0.788420	0.000000	0.000000	0.002500	0.700006	97.230655	9.171495	
shap 0.783312 0.000000 0.000000 0.005000 0.700006 97.136149 9.171495 FF Al AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF Al AG FidIn SPS AD COMP		gradcam	0.456246	8.750000	0.002277	0.285000	0.576740	73.302948	7.569022	
minmax_pos FF Al AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF Al AG FidIn SPS AD COMP		lime	0.662887	14.750000	8.590946	0.405000	0.672999	59.581706	9.227538	
FF AI AG FidIn SPS AD COMP saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF AI AG FidIn SPS AD COMP		shap	0.783312	0.000000	0.000000	0.005000	0.700006	97.136149	9.171495	
saliency 0.769024 0.250000 0.228765 0.067500 0.774734 92.016089 9.143446 gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.00000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF Al AG FidIn SPS AD COMP		minma								
gradcam 0.503738 0.750000 0.092385 0.147500 0.489186 88.137892 9.195824 lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.00000 0.007500 0.727941 97.820285 9.333287 FF Al AG FidIn SPS AD COMP										
lime 0.699502 6.750000 4.104590 0.262500 0.604543 75.048172 9.633056 shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 FF Al AG FidIn SPS AD COMP										
shap 0.753468 0.000000 0.000000 0.007500 0.727941 97.820285 9.333287 topK_5_pos FF Al AG FidIn SPS AD COMP										
topK_5_pos FF AI AG FidIn SPS AD COMP										
FF AI AG FidIn SPS AD COMP		•			0.000000	0.007500	0.727941	97.820285	9.333287	
		topK			AG	FidIn	SPS	AD	COMP	
5.055250 0.055250 0.155150 0.012500 0.575515 55.050055 7.300250		saliency								
gradcam 0.118517 3.750000 0.000537 0.100000 0.884974 90.037609 6.899170										
lime 0.273862 4.500000 2.608519 0.205000 0.916421 82.605794 7.849365		_								

 shap
 0.731777
 0.500000
 0.035973
 0.022500
 0.949973
 95.778591
 7.380256
 --- pos_thresh_50 ---ΑI AG FidIn SPS AD COMP
 saliency
 0.107027
 0.500000
 0.203184
 0.010000
 0.998757
 97.487749
 3.272373
 gradcam 0.449253 2.000000 0.546866 0.235000 **0.606197** 80.000784 **8.682833** lime **0.527689 10.250000 6.915780 0.317500** 0.789854 **70.807660** 8.659089 **0.500000 0.183802** 0.017500 0.996972 **97.933303** shap 0.105702 4.249547 --- topK_50 ---FidIn AD ΑI AG SPS

 saliency
 0.789539
 0.000000
 0.000000
 0.002500
 0.500000
 96.983300
 9.682342

 gradcam
 0.612718
 3.750000
 1.824735
 0.307500
 0.499043
 71.618280
 9.684251

 lime
 0.760747
 21.750000
 12.180873
 0.640000
 0.476016
 39.704406
 9.728505

 shap
 0.790343
 0.000000
 0.000000
 0.002500
 0.500000
 96.830049
 9.682342

--- pos_thresh_25 ---

	FF	AI	A	5 Fidl	n SP:	S AI	о сомр
saliency	0.386120	1.000000	0.46393	4 0.00750	0.98909	97.53681	5.682875
gradcam	0.575466	7.750000	1.80715	8 0.43500	0.43787	59.35719	3 8.634937
lime	0.703865	15.500000	10.39896	8 0.51250	0.62766	50.68651	9.279216
shap	0.566562	0.250000	0.05632	0.02500	0.96168	96.38880	0 6.980273
bin	 FF	AI	AG	5 Fidli	n SP:	S AI	о сомр
saliency	0.789483	0.000000	0.00000	0.00250	0.49999	96.97555	5 9.682347
gradcam	0.646846	13.750000	2.48198	5 0.59500	0 0.31168	1 42.42583	8 6.834141
lime	0.780193	40.000000	20.36050	0.82750	0.29106	1 16.93931	9.829493
shap	0.790175	0.000000	0.00000	0.00500	0 0.48825	7 96.76710	3 9.705524
minm	ax						
	FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	0.774518	10.750000	7.401402	0.277500	0.040483	72.553143	10.371809
gradcam	0.665791	2.250000	0.614114	0.255000	0.302349	78.446919	10.195314
lime	0.730194	10.250000	6.102790	0.382500	0.368780	65.278803	10.106139
shap	0.788614	0.500000	0.111171	0.017500	0.067695	97.039444	10.367169
topK	_		4.5	F1.0.	CDC	45	СОМР
	FF	AI	AG	FidIn	SPS	AD	
saliency	0.695200	0.500000	0.155136	0.012500	0.949973	95.898839	7.380256
gradcam	0.093737	0.250000	0.023225	0.037500	0.948990	96.102285	7.399404
lime	0.273862 0.731777	4.500000 0.500000	2.608519	0.205000	0.916421	82.605794	7.849365
shap		0.500000	0.035973	0.022500	0.949973	95.778591	7.380256
	_50 FF	AI	AG	FidIn	SPS	AD	СОМР
saliency	_	0.000000	AG 0.000000	FidIn 0.002500	SPS 0.700006	AD 97.230655	COMP 9.171495
	FF						
saliency	FF 0.788420	0.000000	0.000000	0.002500	0.700006	97.230655	9.171495
saliency gradcam	FF 0.788420 0.393378	0.000000 0.500000	0.000000 0.110620	0.002500 0.142500	0.700006 0.699018	97.230655 87.259372	9.171495 9.174775
saliency gradcam lime	FF 0.788420 0.393378 0.662933 0.783312	0.000000 0.500000 14.500000	0.000000 0.110620 8.590932	0.002500 0.142500 0.402500	0.700006 0.699018 0.674724	97.230655 87.259372 59.821911	9.171495 9.174775 9.250549
saliency gradcam lime shap	FF 0.788420 0.393378 0.662933 0.783312	0.000000 0.500000 14.500000	0.000000 0.110620 8.590932	0.002500 0.142500 0.402500	0.700006 0.699018 0.674724	97.230655 87.259372 59.821911	9.171495 9.174775 9.250549
saliency gradcam lime shap	0.788420 0.393378 0.662933 0.783312	0.000000 0.500000 14.500000 0.000000	0.000000 0.110620 8.590932 0.000000	0.002500 0.142500 0.402500 0.005000	0.700006 0.699018 0.674724 0.700006	97.230655 87.259372 59.821911 97.136149	9.171495 9.174775 9.250549 9.171495
saliency gradcam lime shap	FF 0.788420 0.393378 0.662933 0.783312 oid FF	0.000000 0.500000 14.500000 0.000000	0.000000 0.110620 8.590932 0.000000	0.002500 0.142500 0.402500 0.005000	0.700006 0.699018 0.674724 0.700006	97.230655 87.259372 59.821911 97.136149	9.171495 9.174775 9.250549 9.171495
saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014	0.000000 0.500000 14.500000 0.000000 Al 3.500000	0.000000 0.110620 8.590932 0.000000 AG 1.996095	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539	97.230655 87.259372 59.821911 97.136149 AD 56.130944	9.171495 9.174775 9.250549 9.171495 COMP 10.375488
saliency gradcam lime shap sigm saliency gradcam	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694	0.000000 0.500000 14.500000 0.000000 Al 3.500000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287
saliency gradcam lime shap sigm saliency gradcam lime shap	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 4.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.374649 10.375487
saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 4.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.374649 10.375487
saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 2.000000 - Al 3.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.415000 FidIn 0.512500	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.0018723 0.001090 SPS 0.000269	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP
saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 2.0000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 FidIn 0.512500 0.470000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195
saliency gradcam lime shap sigm saliency gradcam lime shap sigm saliency gradcam lime	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.599394	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 2.0000000 - Al 3.000000 2.250000 2.750000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.415000 FidIn 0.512500 0.470000 0.480000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.0018723 0.001090 SPS 0.000269 0.024390 0.015101	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.374842
saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.594669 0.599394 0.526666	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 2.0000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 FidIn 0.512500 0.470000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195
saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.599394 0.526666 thresh_75	0.000000 0.500000 14.500000 0.000000 Al 3.500000 2.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018 0.657394	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000 FidIn 0.512500 0.470000 0.480000 0.422500	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390 0.015101 0.000559	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017 68.180132	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.374842 10.375488
saliency gradcam lime shap sigm saliency gradcam lime shap sigm saliency gradcam lime shap pos	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.594669 0.599394 0.526666 thresh_75 FF	0.000000 0.500000 14.500000 0.000000 Al 3.500000 1.000000 2.0000000 2.250000 2.750000 2.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018 0.657394 AG	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000 FidIn 0.512500 0.470000 0.480000 0.422500 FidIn	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.0018723 0.001090 SPS 0.000269 0.024390 0.015101 0.000559 SPS	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017 68.180132 AD	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.375488 COMP
saliency gradcam lime shap sigm saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.599394 0.526666 thresh_75 FF	0.000000 0.500000 14.500000 0.000000 Al 3.500000 2.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018 0.657394 AG 0.0000000	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000 FidIn 0.512500 0.470000 0.480000 0.422500 FidIn 0.012500	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390 0.015101 0.000559 SPS 0.998796	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017 68.180132 AD 96.980906	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.375488 COMP 1.429625
saliency gradcam lime shap sigm saliency gradcam lime shap sigm saliency gradcam lime shap saliency gradcam lime shap pos saliency gradcam	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.594669 0.599394 0.526666 thresh_75 FF 0.021554 0.251565	0.000000 0.500000 14.500000 0.000000 Al 3.500000 2.000000 2.250000 2.750000 2.000000 Al 0.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018 0.657394 AG 0.000000 0.216440	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000 FidIn 0.512500 0.470000 0.480000 0.422500 FidIn 0.012500 0.075000	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390 0.015101 0.000559 SPS 0.998796 0.799444	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017 68.180132 AD 96.980906 92.968666	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.375488 COMP 1.429625 7.877564
saliency gradcam lime shap sigm saliency gradcam lime shap sigm saliency gradcam lime shap sigm	FF 0.788420 0.393378 0.662933 0.783312 oid FF 0.611014 0.586694 0.600107 0.524772 oid_pos FF 0.575920 0.594669 0.599394 0.526666 thresh_75 FF	0.000000 0.500000 14.500000 0.000000 Al 3.500000 2.000000	0.000000 0.110620 8.590932 0.000000 AG 1.996095 0.272882 1.709758 0.652221 AG 1.416806 0.595393 1.428018 0.657394 AG 0.0000000	0.002500 0.142500 0.402500 0.005000 FidIn 0.555000 0.445000 0.497500 0.415000 FidIn 0.512500 0.470000 0.480000 0.422500 FidIn 0.012500	0.700006 0.699018 0.674724 0.700006 SPS 0.000539 0.045033 0.018723 0.001090 SPS 0.000269 0.024390 0.015101 0.000559 SPS 0.998796	97.230655 87.259372 59.821911 97.136149 AD 56.130944 66.063212 61.679100 68.324628 AD 61.363719 63.589368 62.498017 68.180132 AD 96.980906	9.171495 9.174775 9.250549 9.171495 COMP 10.375488 10.371287 10.375487 COMP 10.375489 9.907195 10.375488 COMP 1.429625

```
In [53]: def _metric_columns(df):
             return [c for c in df.columns if pd.api.types.is_numeric_dtype(df[c])]
         def _collect_metric_dfs(results_dict):
             dfs = []
             for _, exps in results_dict.items():
                 for _, df in exps.items():
                     cols = _metric_columns(df)
                     if cols:
                         dfs.append(df[cols].astype(float))
         def compute_global_minmax_from_results(results_dict, numeric_cols=None,
                                                robust=False, q_low=0.01, q_high=0.99):
             dfs = _collect_metric_dfs(results_dict)
             all cols = set()
             for df in dfs: all_cols |= set(df.columns)
             if numeric_cols is not None:
                all_cols &= set(numeric_cols)
             mins, maxs = \{\}, \{\}
             for c in sorted(all_cols):
                vals = []
                 for df in dfs:
                     if c in df.columns:
                        vals.append(pd.to_numeric(df[c], errors="coerce").values)
                 if not vals:
                     continue
                 v = np.concatenate(vals)
                 v = v[np.isfinite(v)]
                 if v.size == 0:
                     mins[c], maxs[c] = 0.0, 1.0
                     continue
                 if robust:
                     lo, hi = np.quantile(v, [q_low, q_high])
                 else:
                     lo, hi = float(np.min(v)), float(np.max(v))
                 if not np.isfinite(lo) or not np.isfinite(hi) or hi <= lo:</pre>
                     lo, hi = 0.0, 1.0
                 mins[c], maxs[c] = float(lo), float(hi)
             return {"mins": mins, "maxs": maxs}
         def normalize_with_global_stats(df, stats):
             df = df.copy()
             mins, maxs = stats["mins"], stats["maxs"]
             for c in df.columns:
                 if pd.api.types.is_numeric_dtype(df[c]) and c in mins:
                     lo, hi = mins[c], maxs[c]
                     x = pd.to_numeric(df[c], errors="coerce")
                     df[c] = ((x - lo) / (hi - lo)).clip(0, 1).fillna(0.0)
             return df
         def normalize_then_invert_with_global_stats(df, stats, invert_cols=("COMP","AD")):
             df = normalize_with_global_stats(df, stats)
             for c in invert_cols:
                 if c in df.columns:
                    df[c] = 1.0 - df[c]
             return df
         def _composite_score(df01, agg="geometric", weights=None,
                              trim_q=0.2, alpha=0.3,
                              tau=0.6, k_min=2, eps=1e-9):
             M = df01.copy()
             cols = list(M.columns)
             w = np.array([weights.get(c, 1.0) if weights else 1.0 for c in cols], dtype=float)
             w = w / (w.sum() if w.sum() > 0 else 1.0)
             if agg == "geometric":
                 return np.exp(np.log(M.clip(eps, 1)).mul(w, axis=1).sum(axis=1))
             elif agg == "trimmed_mean":
                 q = max(0.0, min(0.49, float(trim_q)))
                 def tm(row):
                     vals = np.repeat(row.values, np.maximum((w*1000).astype(int), 1))
                     low = np.quantile(vals, q)
                     high = np.quantile(vals, 1-q)
                     keep = vals[(vals >= low) & (vals <= high)]
                     return float(keep.mean()) if keep.size else float(row.mean())
                 return M.apply(_tm, axis=1)
             elif agg == "mean_minus_std":
                 mu = (M * w).sum(axis=1)
                 var = ((M.sub(mu, axis=0))**2 * w).sum(axis=1)
                 sd = np.sqrt(var.clip(0, None))
                 return mu - float(alpha) * sd
```

```
elif agg == "thresholded_mean":
        def _th(row):
           mask = row >= float(tau)
            if mask.sum() >= int(k_min):
              return float(row[mask].mean())
           return float(row.mean() * 0.5)
       return M.apply(_th, axis=1)
    elif agg == "rank_mean":
       ranks = M.rank(axis=0, method="average")
       n = len(M)
       norm = 1 - (ranks - 1) / (n - 1 if n > 1 else 1)
       return (norm * w).sum(axis=1)
       return (M * w).sum(axis=1)
def build_method_exp_index(results_dict):
   idx = defaultdict(lambda: defaultdict(dict))
    for model, exps in results_dict.items():
        for exp_name, df in exps.items():
           if " " in exp name:
               method, exp = exp_name.split("_", 1)
            else:
               method, exp = exp_name, "exp"
            idx[model][exp][method] = df
   return idx
def summarize_best_masks_by_experiment(results_dict,
                                       invert_cols=("COMP","AD"),
                                       known_methods=None, global_stats=None,
                                       robust=False, q_low=0.01, q_high=0.99,
                                       return normalized=False,
                                       score_agg="geometric", score_weights=None,
                                       trim_q=0.2, alpha=0.3, tau=0.6, k_min=2):
    if global_stats is None:
       global_stats = compute_global_minmax_from_results(
           results_dict, robust=robust, q_low=q_low, q_high=q_high
    idx = build_method_exp_index(results_dict)
    summaries = defaultdict(dict)
    for model, exp dict in idx.items():
       for exp, methods in exp_dict.items():
           rows = []
            method_list = list(methods.keys())
            if known_methods:
               method_list = [m for m in known_methods if m in methods]
            for m in method_list:
               df = methods[m]
                metrics = _metric_columns(df)
               if not metrics:
                    continue
               df_raw = df[metrics].astype(float)
                df_scored = normalize_then_invert_with_global_stats(
                   df_raw, global_stats, invert_cols=invert_cols
                mean_score = _composite_score(
                   df_scored,
                    agg=score_agg,
                   weights=score weights,
                   trim_q=trim_q,
                   alpha=alpha,
                    tau=tau,
                    k_min=k_min
               best_idx = mean_score.idxmax()
                out = {
                   "method": m,
                   "best mask": best idx,
                   "mean_score": float(mean_score.loc[best_idx]),
                src = df_raw if not return_normalized else df_scored
                for c in metrics:
                   out[c] = float(src.loc[best_idx, c])
                rows.append(out)
```

```
pd.DataFrame(rows)
                         .sort_values("mean_score", ascending=False, ignore_index=True)
            return summaries, global_stats
        def display_summary_table(df, title=None, drop_best_mask_col=False):
            method_order = ["saliency", "gradcam", "lime", "shap"]
            if "method" in df.columns:
               df = df.set index("method")
            if "best_mask" in df.columns:
                df.index = [f"{m}_{bm}" for m, bm in zip(df.index, df["best_mask"])]
                if drop_best_mask_col:
                   df = df.drop(columns=["best_mask"])
            ordered_idx = []
            for m in method_order:
               ordered_idx.extend([idx for idx in df.index if idx.split("_", 1)[0] == m])
            ordered_idx = [idx for idx in ordered_idx if idx in df.index]
            if ordered idx:
               df = df.loc[ordered idx]
            if "column_order" in globals():
                cols = [c for c in column_order if c in df.columns]
               if "mean_score" in df.columns and "mean_score" not in cols:
                  cols = cols + ["mean score"]
               df = df.reindex(columns=cols)
            styler = df.style
            if "highlight_extremes" in globals():
               styler = styler.apply(highlight_extremes, axis=0)
            if title:
               print(f"\n=== {title} ===")
            display(styler)
In [54]: summaries v2, global stats = summarize best masks by experiment(
            results dict=experiment results.
            invert_cols=("COMP","AD"),
            known_methods=method_names,
            robust=False, q_low=0.01, q_high=0.99,
            return_normalized=False,
            score_agg="geometric"
        for model, exps in summaries_v2.items():
            for exp, df in exps.items():
               display_summary_table(df, title=f"--- Experiment: {exp} ---")
       ========= MODEL: cnn14_logstft ===========
       === --- Experiment: clean --- ===
                               FF
                                         ΑI
                                                  AG
                                                          FidIn
                                                                    SPS
                                                                              AD
                                                                                     COMP mean score
       5.221556
                                                                                              0.177141
                                   24.750000
                                              0.217910 0.702500 0.224974 31.075000
                                                                                   4.771012
                                                                                              0.329445
       gradcam_topK_50_pos 0.724579
                  lime_bin 0.790285 26.000000 14.205455 0.685000 0.272667 32.028679 10.931619
                                                                                              0.412818
          shap_topK_50_pos 0.802137 3.750000
                                              0.377866 0.117500 0.448744 88.001432
                                                                                              0.149945
                                                                                    9.515425
       =========== MODEL: cnn14_logmel ==========
       === --- Experiment: clean --- ===
                              FF
                                                         FidIn
                                                                   SPS
                                         ΑI
                                                  AG
                                                                             ΔD
                                                                                     COMP mean_score
       saliency_topK_50_pos 0.923509 17.000000
                                             0.010820 0.660000 0.173750 34.228729
                                                                                  3.364614
                                                                                              0.205340
              gradcam_bin 0.718901 19.500000
                                             2.312055 0.782500 0.195505 24.363625
                                                                                   4.918478
                                                                                              0.448234
                 lime_bin 0.899183 28.750000 12.359402 0.932500 0.200351
                                                                                   9 534232
                                                                                             0.547542
                                                                        8.067020
                                             0.706020 0.635000 0.001600 45.859315 10.375483
             shap_sigmoid 0.411541 1.750000
                                                                                             0.086768
       === --- Experiment: white --- ===
```

summaries[model][exp] = (

		FF	4	AI A	AG	Fid	ln	SP	S	Α	D	CON	ΙP	mean_sco	re	
saliency_topK_50_p	oos 0.71	1190	32.50000	0.0097	46	0.74500	00	0.12750	0	25.34299	96	2.46899	97	0.21526	55	
gradcam_l	bin 0.5	26246	15.75000	00 2.5479	937	0.51000	00	0.29173	6	49.57378	3	5.39617	75	0.39124	18	
lime_l	bin 0.6	98812	34.25000	0 9.1745	60	0.80250	00	0.18783	9	19.66327	7	8.0352	13	0.53886	55	
shap_sigm	oid 0.4 7	9692	5.00000	1.9955	513	0.38000	00	0.00105	9	69.05004	8	10.37548	37	0.09600)4	
=== Experime	ent: roo	n	===													
		FF		AI	AG	Fi	dIn	S	PS	ı	AD	CO	MP	mean_sc	ore	
saliency_topK_50_p	oos 0.85	0689	27.25000	0.010	742	0.6850	000	0.1575	00	31.0446	39	3.0499	938	0.217	587	
gradcam_l	bin 0.6	24585	16.75000	00 2.458	3265	0.6450	000	0.2627	52	37.1843	366	5.513	788	0.422	272	
lime_l	bin 0.8	34633	22.75000	10.066	187	0.8225	500	0.2096	62	21.2240	98	9.733	605	0.4834	131	
shap_sigm	oid 0.5 0	6164	3.00000	1.742	2738	0.4875	500	0.0010	07	61.328933		61.328933 10.375487		187	0.0938	304
=== Experime	ent: hor	se	- ===													
	F	F	AI	AG		FidIn		SPS		AD		COMP	me	an_score		
saliency_minmax	0.77451	3 10	.750000	7.401402	0.2	77500	0.0)40483	72.	553143	10	.371809		0.220737		
gradcam_bin	0.64684	5 13	.750000	2.481985	0.5	95000	0.3	11681	42	.425838	6.	834141		0.398163		
lime_bin	0.78019	3 40.	.000000 2	20.360500	0.8	27500	0.2	291061	16.	939316	9	.829493	(0.601190		
shap_sigmoid	0.52477	2 2.	000000	0.652221	0.4	115000	0.0	01090	68	.324628	10.	375487	(0.074229		

Saving results

```
In [55]: os.makedirs("supplementary", exist_ok=True)
          output_dir = os.path.join("supplementary", "exported_csvs")
          os.makedirs(output_dir, exist_ok=True)
          for model_type, exps in experiment_results.items():
               for exp_name, df in exps.items():
                    fname = f"{model_type}_{exp_name}.csv"
                   df.to_csv(os.path.join(output_dir, fname), index=True)
          for model_type, exps in mask_experiment_results.items():
               for exp_type, masks in exps.items():
                   for mask_name, df in masks.items():
                        fname = f"{model_type}_{exp_type}_{mask_name}.csv"
                        df.to_csv(os.path.join(output_dir, fname), index=True)
          path_exported_true = os.path.join("supplementary", "exported_true")
path_exported_false = os.path.join("supplementary", "exported_false")
          os.makedirs(path_exported_true, exist_ok=True)
          os.{\tt makedirs(path\_exported\_false,\ exist\_ok=True)}
          for model in model_types:
               for exp_name, df_t in experiment_results_true[model].items():
                   df_t.to_csv(os.path.join(path_exported_true, f"{model}_{exp_name}_true.csv"), index=True)
               for exp_name, df_f in experiment_results_false[model].items():
    df_f.to_csv(os.path.join(path_exported_false, f"{model}_{exp_name}_false.csv"), index=True)
```