Epoch 1/10 - Train Loss: 0.5210, Train Acc: 0.8037, Val Loss: 0.5321, Val Acc: 0.8018, Val Macro-F1: 0.7947 Epoch 2/10 - Train Loss: 0.4131, Train Acc: 0.8494, Val Loss: 0.4256, Val Acc: 0.8442, Val Macro-F1: 0.8400 Epoch 3/10 - Train Loss: 0.3750, Train Acc: 0.8620, Val Loss: 0.3945, Val Acc: 0.8520, Val Macro-F1: 0.8494 Epoch 4/10 - Train Loss: 0.3490, Train Acc: 0.8714, Val Loss: 0.3717, Val Acc: 0.8625, Val Macro-F1: 0.8610 Epoch 5/10 - Train Loss: 0.3312, Train Acc: 0.8769, Val Loss: 0.3567, Val Acc: 0.8675, Val Macro-F1: 0.8662 Epoch 6/10 - Train Loss: 0.3150, Train Acc: 0.8827, Val Loss: 0.3438, Val Acc: 0.8733, Val Macro-F1: 0.8723 Epoch 7/10 - Train Loss: 0.3053, Train Acc: 0.8861, Val Loss: 0.3383, Val Acc: 0.8757, Val Macro-F1: 0.8746 Epoch 8/10 - Train Loss: 0.2918, Train Acc: 0.8919, Val Loss: 0.3279, Val Acc: 0.8813, Val Macro-F1: 0.8805 Epoch 9/10 - Train Loss: 0.2847, Train Acc: 0.8939, Val Loss: 0.3284, Val Acc: 0.8778, Val Macro-F1: 0.8768 Epoch 10/10 - Train Loss: 0.2781, Train Acc: 0.8968, Val Loss: 0.3286, Val Acc: 0.8785, Val Macro-F1: 0.8773 Epoch 1/10 - Train Loss: 0.4682, Train Acc: 0.8291, Val Loss: 0.4843, Val Acc: 0.8265, Val Macro-F1: 0.8208 Epoch 2/10 - Train Loss: 0.3892, Train Acc: 0.8565, Val Loss: 0.4061, Val Acc: 0.8515, Val Macro-F1: 0.8483 Epoch 3/10 - Train Loss: 0.3506, Train Acc: 0.8712, Val Loss: 0.3739, Val Acc: 0.8622, Val Macro-F1: 0.8605 Epoch 4/10 - Train Loss: 0.3281, Train Acc: 0.8792, Val Loss: 0.3572, Val Acc: 0.8697, Val Macro-F1: 0.8683 Epoch 5/10 - Train Loss: 0.3063, Train Acc: 0.8865, Val Loss: 0.3406, Val Acc: 0.8787, Val Macro-F1: 0.8778 Epoch 6/10 - Train Loss: 0.2910, Train Acc: 0.8926, Val Loss: 0.3316, Val Acc: 0.8787, Val Macro-F1: 0.8776 Epoch 7/10 - Train Loss: 0.2783, Train Acc: 0.8970, Val Loss: 0.3209, Val Acc: 0.8858, Val Macro-F1: 0.8847 Epoch 8/10 - Train Loss: 0.2652, Train Acc: 0.9017, Val Loss: 0.3136, Val Acc: 0.8887, Val Macro-F1: 0.8878 Epoch 9/10 - Train Loss: 0.2628, Train Acc: 0.9018, Val Loss: 0.3186, Val Acc: 0.8877, Val Macro-F1: 0.8867 Epoch 10/10 - Train Loss: 0.2512, Train Acc: 0.9066, Val Loss: 0.3131, Val Acc: 0.8912, Val Macro-F1: 0.8903 Epoch 1/10 - Train Loss: 0.5549, Train Acc: 0.7972, Val Loss: 0.5674, Val Acc: 0.7960, Val Macro-F1: 0.7916 Epoch 2/10 - Train Loss: 0.4215, Train Acc: 0.8464, Val Loss: 0.4352, Val Acc: 0.8410, Val Macro-F1: 0.8377 Epoch 3/10 - Train Loss: 0.3670, Train Acc: 0.8664, Val Loss: 0.3826, Val Acc: 0.8572, Val Macro-F1: 0.8556 Epoch 4/10 - Train Loss: 0.3390, Train Acc: 0.8757, Val Loss: 0.3584, Val Acc: 0.8662, Val Macro-F1: 0.8650 Epoch 5/10 - Train Loss: 0.3172, Train Acc: 0.8828, Val Loss: 0.3417, Val Acc: 0.8770, Val Macro-F1: 0.8762 Epoch 6/10 - Train Loss: 0.3022, Train Acc: 0.8878, Val Loss: 0.3329, Val Acc: 0.8775, Val Macro-F1: 0.8768

Epoch 7/10 - Train Loss: 0.2873, Train Acc: 0.8939, Val Loss: 0.3222, Val Acc: 0.8828, Val Macro-F1: 0.8820 Epoch 8/10 - Train Loss: 0.2717, Train Acc: 0.9000, Val Loss: 0.3125, Val Acc: 0.8873, Val Macro-F1: 0.8867 Epoch 9/10 - Train Loss: 0.2614, Train Acc: 0.9036, Val Loss: 0.3091, Val Acc: 0.8897, Val Macro-F1: 0.8889 Epoch 10/10 - Train Loss: 0.2532, Train Acc: 0.9064, Val Loss: 0.3075, Val Acc: 0.8915, Val Macro-F1: 0.8909 Epoch 1/10 - Train Loss: 0.2531, Train Acc: 0.9056, Val Loss: 0.3032, Val Acc: 0.8898, Val Macro-F1: 0.8893 Epoch 2/10 - Train Loss: 0.2492, Train Acc: 0.9069, Val Loss: 0.3019, Val Acc: 0.8902, Val Macro-F1: 0.8896 Epoch 3/10 - Train Loss: 0.2460, Train Acc: 0.9081, Val Loss: 0.3013, Val Acc: 0.8902, Val Macro-F1: 0.8896 Epoch 4/10 - Train Loss: 0.2429, Train Acc: 0.9094, Val Loss: 0.3007, Val Acc: 0.8903, Val Macro-F1: 0.8897 Epoch 5/10 - Train Loss: 0.2400, Train Acc: 0.9107, Val Loss: 0.3002, Val Acc: 0.8915, Val Macro-F1: 0.8909 Epoch 6/10 - Train Loss: 0.2372, Train Acc: 0.9116, Val Loss: 0.3001, Val Acc: 0.8920, Val Macro-F1: 0.8913 Epoch 7/10 - Train Loss: 0.2347, Train Acc: 0.9124, Val Loss: 0.3004, Val Acc: 0.8920, Val Macro-F1: 0.8913 Epoch 8/10 - Train Loss: 0.2323, Train Acc: 0.9132, Val Loss: 0.3003, Val Acc: 0.8918, Val Macro-F1: 0.8911 Epoch 9/10 - Train Loss: 0.2297, Train Acc: 0.9141, Val Loss: 0.3004, Val Acc: 0.8917, Val Macro-F1: 0.8909 Epoch 10/10 - Train Loss: 0.2276, Train Acc: 0.9147, Val Loss: 0.3006, Val Acc: 0.8913, Val Macro-F1: 0.8905 Epoch 1/10 - Train Loss: 0.2206, Train Acc: 0.9174, Val Loss: 0.2899, Val Acc: 0.8965, Val Macro-F1: 0.8960 Epoch 2/10 - Train Loss: 0.2152, Train Acc: 0.9197, Val Loss: 0.2894, Val Acc: 0.8978, Val Macro-F1: 0.8973 Epoch 3/10 - Train Loss: 0.2105, Train Acc: 0.9215, Val Loss: 0.2886, Val Acc: 0.8963, Val Macro-F1: 0.8957 Epoch 4/10 - Train Loss: 0.2065, Train Acc: 0.9231, Val Loss: 0.2892, Val Acc: 0.8973, Val Macro-F1: 0.8967 Epoch 5/10 - Train Loss: 0.2031, Train Acc: 0.9244, Val Loss: 0.2900, Val Acc: 0.8973, Val Macro-F1: 0.8968 Epoch 6/10 - Train Loss: 0.1998, Train Acc: 0.9256, Val Loss: 0.2903, Val Acc: 0.8977, Val Macro-F1: 0.8971 Epoch 7/10 - Train Loss: 0.1965, Train Acc: 0.9270, Val Loss: 0.2910, Val Acc: 0.8965, Val Macro-F1: 0.8959 Epoch 8/10 - Train Loss: 0.1937, Train Acc: 0.9279, Val Loss: 0.2919, Val Acc: 0.8963, Val Macro-F1: 0.8957 Epoch 9/10 - Train Loss: 0.1909, Train Acc: 0.9289, Val Loss: 0.2928, Val Acc: 0.8967, Val Macro-F1: 0.8961 Epoch 10/10 - Train Loss: 0.1882, Train Acc: 0.9299, Val Loss: 0.2941, Val Acc: 0.8970, Val Macro-F1: 0.8963 Epoch 1/10 - Train Loss: 0.2288, Train Acc: 0.9145, Val Loss: 0.2912, Val Acc: 0.8937, Val Macro-F1: 0.8931 Epoch 2/10 - Train Loss: 0.2239, Train Acc: 0.9159, Val Loss: 0.2909, Val Acc: 0.8938, Val Macro-F1: 0.8933

Epoch 3/10 - Train Loss: 0.2199, Train Acc: 0.9175, Val Loss: 0.2902, Val Acc: 0.8932, Val Macro-F1: 0.8925 Epoch 4/10 - Train Loss: 0.2158, Train Acc: 0.9190, Val Loss: 0.2895, Val Acc: 0.8937, Val Macro-F1: 0.8930 Epoch 5/10 - Train Loss: 0.2121, Train Acc: 0.9206, Val Loss: 0.2891, Val Acc: 0.8940, Val Macro-F1: 0.8933 Epoch 6/10 - Train Loss: 0.2090, Train Acc: 0.9215, Val Loss: 0.2894, Val Acc: 0.8943, Val Macro-F1: 0.8936 Epoch 7/10 - Train Loss: 0.2057, Train Acc: 0.9227, Val Loss: 0.2895, Val Acc: 0.8952, Val Macro-F1: 0.8944 Epoch 8/10 - Train Loss: 0.2022, Train Acc: 0.9248, Val Loss: 0.2897, Val Acc: 0.8963, Val Macro-F1: 0.8955 Epoch 9/10 - Train Loss: 0.1989, Train Acc: 0.9257, Val Loss: 0.2895, Val Acc: 0.8972, Val Macro-F1: 0.8964 Epoch 10/10 - Train Loss: 0.1959, Train Acc: 0.9268, Val Loss: 0.2902, Val Acc: 0.8963, Val Macro-F1: 0.8955 Epoch 1/10 - Train Loss: 0.2235, Train Acc: 0.9166, Val Loss: 0.2982, Val Acc: 0.8947, Val Macro-F1: 0.8938 Epoch 2/10 - Train Loss: 0.2221, Train Acc: 0.9171, Val Loss: 0.2983, Val Acc: 0.8958, Val Macro-F1: 0.8949 Epoch 3/10 - Train Loss: 0.2209, Train Acc: 0.9173, Val Loss: 0.2986, Val Acc: 0.8953, Val Macro-F1: 0.8944 Epoch 4/10 - Train Loss: 0.2196, Train Acc: 0.9178, Val Loss: 0.2986, Val Acc: 0.8957, Val Macro-F1: 0.8947 Epoch 5/10 - Train Loss: 0.2183, Train Acc: 0.9183, Val Loss: 0.2988, Val Acc: 0.8958, Val Macro-F1: 0.8949 Epoch 6/10 - Train Loss: 0.2168, Train Acc: 0.9191, Val Loss: 0.2990, Val Acc: 0.8955, Val Macro-F1: 0.8946 Epoch 7/10 - Train Loss: 0.2156, Train Acc: 0.9194, Val Loss: 0.2992, Val Acc: 0.8960, Val Macro-F1: 0.8951 Epoch 8/10 - Train Loss: 0.2144, Train Acc: 0.9201, Val Loss: 0.2997, Val Acc: 0.8953, Val Macro-F1: 0.8944 Epoch 9/10 - Train Loss: 0.2130, Train Acc: 0.9205, Val Loss: 0.2999, Val Acc: 0.8953, Val Macro-F1: 0.8945 Epoch 10/10 - Train Loss: 0.2117, Train Acc: 0.9210, Val Loss: 0.3000, Val Acc: 0.8952, Val Macro-F1: 0.8943 Epoch 1/10 - Train Loss: 0.1841, Train Acc: 0.9319, Val Loss: 0.2944, Val Acc: 0.8958, Val Macro-F1: 0.8951 Epoch 2/10 - Train Loss: 0.1824, Train Acc: 0.9323, Val Loss: 0.2955, Val Acc: 0.8960, Val Macro-F1: 0.8953 Epoch 3/10 - Train Loss: 0.1808, Train Acc: 0.9324, Val Loss: 0.2966, Val Acc: 0.8965, Val Macro-F1: 0.8958 Epoch 4/10 - Train Loss: 0.1792, Train Acc: 0.9334, Val Loss: 0.2976, Val Acc: 0.8972, Val Macro-F1: 0.8964 Epoch 5/10 - Train Loss: 0.1776, Train Acc: 0.9340, Val Loss: 0.2985, Val Acc: 0.8972, Val Macro-F1: 0.8964 Epoch 6/10 - Train Loss: 0.1760, Train Acc: 0.9345, Val Loss: 0.2995, Val Acc: 0.8963, Val Macro-F1: 0.8956 Epoch 7/10 - Train Loss: 0.1746, Train Acc: 0.9347, Val Loss: 0.3005, Val Acc: 0.8960, Val Macro-F1: 0.8952 Epoch 8/10 - Train Loss: 0.1733, Train Acc: 0.9352, Val Loss: 0.3017, Val Acc: 0.8950, Val Macro-F1: 0.8942

Epoch 9/10 - Train Loss: 0.1719, Train Acc: 0.9356, Val Loss: 0.3031, Val Acc: 0.8952, Val Macro-F1: 0.8943 Epoch 10/10 - Train Loss: 0.1705, Train Acc: 0.9358, Val Loss: 0.3044, Val Acc: 0.8955, Val Macro-F1: 0.8947 Epoch 1/10 - Train Loss: 0.1911, Train Acc: 0.9285, Val Loss: 0.2880, Val Acc: 0.8975, Val Macro-F1: 0.8968 Epoch 2/10 - Train Loss: 0.1892, Train Acc: 0.9292, Val Loss: 0.2883, Val Acc: 0.8980, Val Macro-F1: 0.8973 Epoch 3/10 - Train Loss: 0.1874, Train Acc: 0.9301, Val Loss: 0.2886, Val Acc: 0.8987, Val Macro-F1: 0.8979 Epoch 4/10 - Train Loss: 0.1857, Train Acc: 0.9310, Val Loss: 0.2888, Val Acc: 0.8983, Val Macro-F1: 0.8975 Epoch 5/10 - Train Loss: 0.1839, Train Acc: 0.9317, Val Loss: 0.2893, Val Acc: 0.8987, Val Macro-F1: 0.8979 Epoch 6/10 - Train Loss: 0.1823, Train Acc: 0.9324, Val Loss: 0.2898, Val Acc: 0.8982, Val Macro-F1: 0.8974 Epoch 7/10 - Train Loss: 0.1805, Train Acc: 0.9328, Val Loss: 0.2902, Val Acc: 0.8988, Val Macro-F1: 0.8980 Epoch 8/10 - Train Loss: 0.1789, Train Acc: 0.9336, Val Loss: 0.2905, Val Acc: 0.8990, Val Macro-F1: 0.8983 Epoch 9/10 - Train Loss: 0.1773, Train Acc: 0.9341, Val Loss: 0.2910, Val Acc: 0.8985, Val Macro-F1: 0.8978 Epoch 10/10 - Train Loss: 0.1755, Train Acc: 0.9350, Val Loss: 0.2916, Val Acc: 0.9000, Val Macro-F1: 0.8992 Epoch 1/10 - Train Loss: 0.2082, Train Acc: 0.9225, Val Loss: 0.2974, Val Acc: 0.8943, Val Macro-F1: 0.8935 Epoch 2/10 - Train Loss: 0.2077, Train Acc: 0.9227, Val Loss: 0.2972, Val Acc: 0.8940, Val Macro-F1: 0.8932 Epoch 3/10 - Train Loss: 0.2074, Train Acc: 0.9231, Val Loss: 0.2972, Val Acc: 0.8935, Val Macro-F1: 0.8927 Epoch 4/10 - Train Loss: 0.2071, Train Acc: 0.9231, Val Loss: 0.2972, Val Acc: 0.8937, Val Macro-F1: 0.8929 Epoch 5/10 - Train Loss: 0.2068, Train Acc: 0.9232, Val Loss: 0.2972, Val Acc: 0.8937, Val Macro-F1: 0.8929 Epoch 6/10 - Train Loss: 0.2066, Train Acc: 0.9231, Val Loss: 0.2972, Val Acc: 0.8935, Val Macro-F1: 0.8927 Epoch 7/10 - Train Loss: 0.2063, Train Acc: 0.9232, Val Loss: 0.2973, Val Acc: 0.8935, Val Macro-F1: 0.8927 Epoch 8/10 - Train Loss: 0.2060, Train Acc: 0.9233, Val Loss: 0.2973, Val Acc: 0.8935, Val Macro-F1: 0.8927 Epoch 9/10 - Train Loss: 0.2057, Train Acc: 0.9233, Val Loss: 0.2973, Val Acc: 0.8933, Val Macro-F1: 0.8926 Epoch 10/10 - Train Loss: 0.2054, Train Acc: 0.9236, Val Loss: 0.2974, Val Acc: 0.8932, Val Macro-F1: 0.8924 Epoch 1/10 - Train Loss: 0.1669, Train Acc: 0.9378, Val Loss: 0.3027, Val Acc: 0.8940, Val Macro-F1: 0.8932 Epoch 2/10 - Train Loss: 0.1663, Train Acc: 0.9381, Val Loss: 0.3028, Val Acc: 0.8942, Val Macro-F1: 0.8934 Epoch 3/10 - Train Loss: 0.1659, Train Acc: 0.9385, Val Loss: 0.3031, Val Acc: 0.8945, Val Macro-F1: 0.8938 Epoch 4/10 - Train Loss: 0.1655, Train Acc: 0.9386, Val Loss: 0.3034, Val Acc: 0.8943, Val Macro-F1: 0.8936

Epoch 5/10 - Train Loss: 0.1651, Train Acc: 0.9388, Val Loss: 0.3037, Val Acc: 0.8938, Val Macro-F1: 0.8931 Epoch 6/10 - Train Loss: 0.1647, Train Acc: 0.9389, Val Loss: 0.3040, Val Acc: 0.8940, Val Macro-F1: 0.8933 Epoch 7/10 - Train Loss: 0.1644, Train Acc: 0.9389, Val Loss: 0.3043, Val Acc: 0.8937, Val Macro-F1: 0.8929 Epoch 8/10 - Train Loss: 0.1640, Train Acc: 0.9391, Val Loss: 0.3046, Val Acc: 0.8937, Val Macro-F1: 0.8929 Epoch 9/10 - Train Loss: 0.1637, Train Acc: 0.9392, Val Loss: 0.3049, Val Acc: 0.8938, Val Macro-F1: 0.8931 Epoch 10/10 - Train Loss: 0.1633, Train Acc: 0.9393, Val Loss: 0.3052, Val Acc: 0.8937, Val Macro-F1: 0.8929 Epoch 1/10 - Train Loss: 0.1726, Train Acc: 0.9359, Val Loss: 0.2895, Val Acc: 0.8992, Val Macro-F1: 0.8983 Epoch 2/10 - Train Loss: 0.1721, Train Acc: 0.9361, Val Loss: 0.2895, Val Acc: 0.8978, Val Macro-F1: 0.8970 Epoch 3/10 - Train Loss: 0.1717, Train Acc: 0.9364, Val Loss: 0.2896, Val Acc: 0.8980, Val Macro-F1: 0.8971 Epoch 4/10 - Train Loss: 0.1712, Train Acc: 0.9364, Val Loss: 0.2897, Val Acc: 0.8980, Val Macro-F1: 0.8971 Epoch 5/10 - Train Loss: 0.1708, Train Acc: 0.9365, Val Loss: 0.2899, Val Acc: 0.8977, Val Macro-F1: 0.8968 Epoch 6/10 - Train Loss: 0.1704, Train Acc: 0.9367, Val Loss: 0.2900, Val Acc: 0.8975, Val Macro-F1: 0.8966 Epoch 7/10 - Train Loss: 0.1701, Train Acc: 0.9369, Val Loss: 0.2901, Val Acc: 0.8975, Val Macro-F1: 0.8966 Epoch 8/10 - Train Loss: 0.1697, Train Acc: 0.9371, Val Loss: 0.2903, Val Acc: 0.8977, Val Macro-F1: 0.8968 Epoch 9/10 - Train Loss: 0.1693, Train Acc: 0.9372, Val Loss: 0.2904, Val Acc: 0.8972, Val Macro-F1: 0.8962 Epoch 10/10 - Train Loss: 0.1689, Train Acc: 0.9372, Val Loss: 0.2906, Val Acc: 0.8968, Val Macro-F1: 0.8959

Confusion Matrix (LR: 0.005, Arch) - 600 9 0 0 5 2 7 - 500 n - 6 - 400 m - 20 - 300 - 200 - 100 ∞ − 4 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.005, Arch) - 600 0 3 - 500 n - 9 - 400 m - 18 True Label 5 4 - 300 83 - ي - 200 - 100 ω - 5 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.005, Arch) - 600 0 3 - 500 n - 6 - 400 m - 14 - 300 75 - ي - 200 - 100 ω - 3 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.001, Arch) - 600 9 0 0 5 2 7 - 500 n - 6 - 400 m - 20 - 300 - 200 - 100 ∞ − 4 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.001, Arch) - 600 0 3 - 500 n - 9 - 400 m - 18 True Label 5 4 - 300 83 - ي - 200 - 100 ω - 5 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.001, Arch) - 600 0 3 - 500 n - 6 - 400 m - 14 - 300 75 - ي - 200 - 100 ∞ - 3 თ - 0 7 8 - 0 Predicted Label

Confusion Matrix (LR: 0.0005, Arch) - 600 9 0 2 7 - 500 n - 6 - 400 m - 20 - 300 - 200 - 100 - 0 Predicted Label

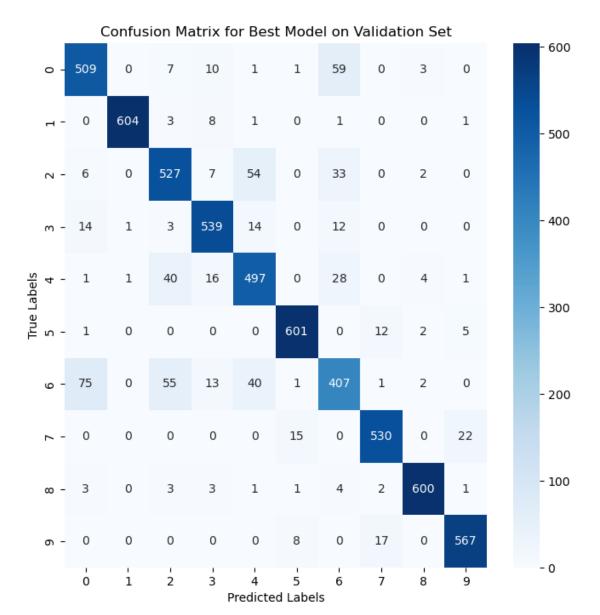
Confusion Matrix (LR: 0.0005, Arch) - 600 0 3 0 - 500 n - 9 - 400 m - 18 - 300 83 - ي - 200 - 100 ω - 5 თ - 0 7 8 - 0 Predicted Label

Confusion Matrix (LR: 0.0005, Arch) - 600 0 3 0 - 500 - 400 m - 14 - 300 75 - ي - 200 - 100 ∞ - 3 თ - 0 6 7 8 - 0 Predicted Label

Confusion Matrix (LR: 0.0001, Arch) - 600 9 0 2 7 - 500 n - 6 - 400 m - 20 - 300 - 200 - 100 - 0 Predicted Label

Confusion Matrix (LR: 0.0001, Arch) - 600 0 3 0 - 500 n - 9 - 400 m - 18 - 300 83 - ي - 200 - 100 ω - 5 თ - 0 - 0 Predicted Label

Confusion Matrix (LR: 0.0001, Arch) - 600 0 3 0 - 500 - 400 m - 14 - 300 75 - ي - 200 - 100 ∞ - 3 თ - 0 6 7 8 - 0 Predicted Label



Test Results:

Test Loss: 0.3211, Test Accuracy: 0.8894, Test Macro-F1: 0.8891