UNSW-NB15 - Feature Importance Comparison
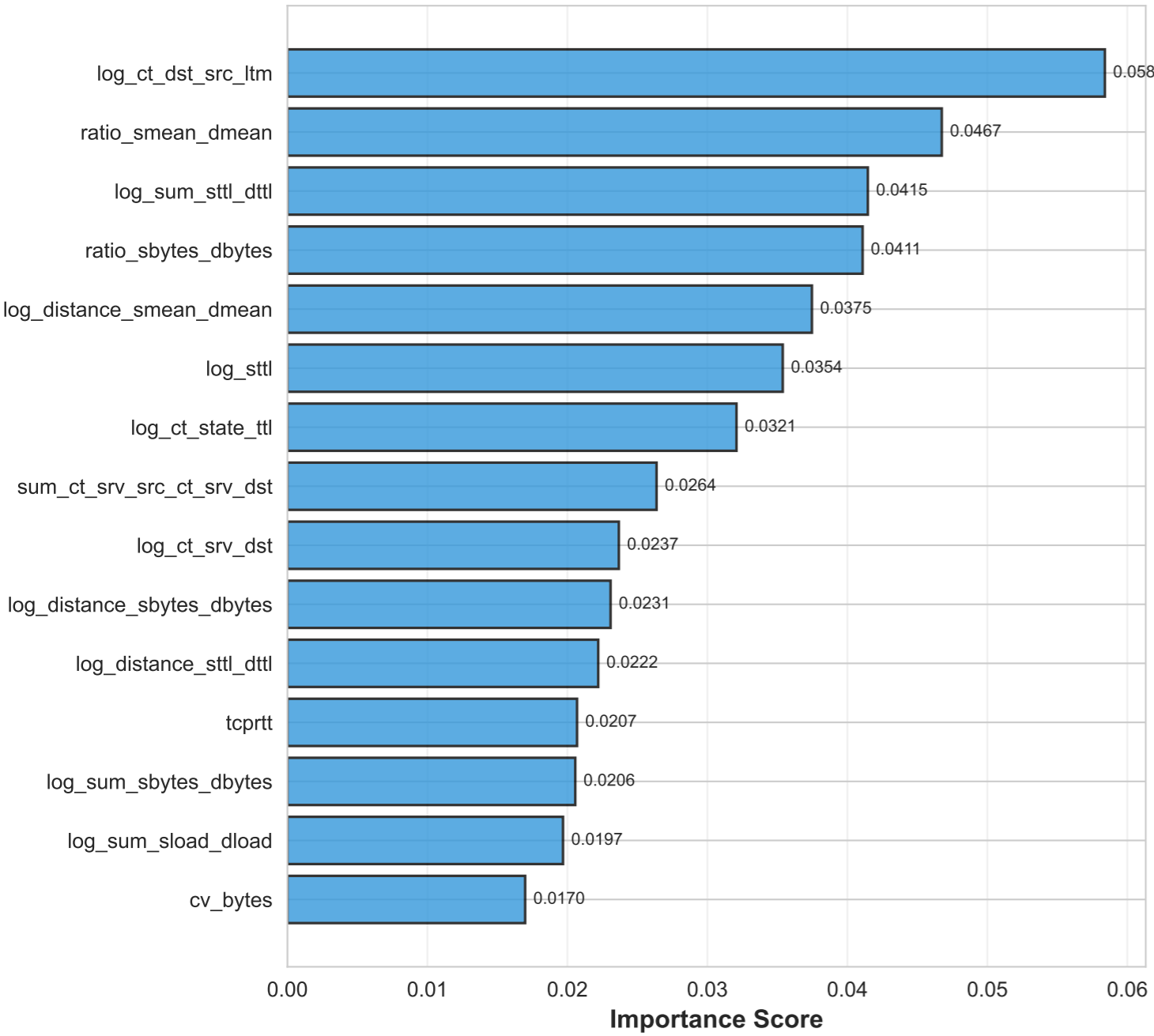

Random Forest - Top 15 Features

Feature	Importance Score
log_ct_dst_src_ltm	0.0584
ratio_smean_dmean	0.0467
log_sum_sttl_dttl	0.0415
ratio_sbytes_dbytes	0.0411
log_distance_smean_dmean	0.0375
log_sttl	0.0354
log_ct_state_ttl	0.0321
sum_ct_srv_src_ct_srv_dst	0.0264
log_ct_srv_dst	0.0237
log_distance_sbytes_dbytes	0.0231
log_distance_sttl_dttl	0.0222
tcprtt	0.0207
log_sum_sbytes_dbytes	0.0206
log_sum_sload_dload	0.0197
cv_bytes	0.0170

XGBoost - Top 15 Features

Feature	Importance Score (Gain)
log_dttl	4641.0752
ratio_smean_dmean	3137.5002
log_sttl	311.9527
sum_smean_dmean	292.8673
log_dbytes	282.0657
log_ct_dst_src_ltm	276.1294
sum_sinpkt_dinpkt	190.2733
log_ct_dst_sport_ltm	141.2828
log_diff_sjit_djit	130.0947
log_distance_smean_dmean	124.5426
ratio_sloss_dloss	124.1605
tcprtt	116.4619
log_ct_srv_dst	103.6632
log_ct_state_ttl	94.5995
rate	92.7801