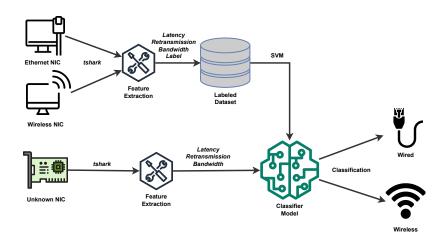
Preparazione ed analisi di un dataset di traffico TCP da terminali wireless/wired

Alex Ardelean

Dipartimento di Ingegneria Università degli Studi di Perugia

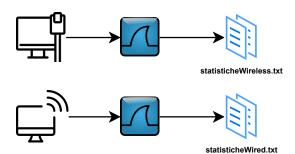
2023

Approccio

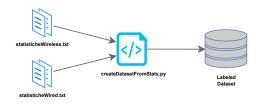


Cattura del traffico

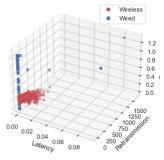
tshark -i <interface> -a duration:600 -q -z
"io,stat,1,
AVG(tcp.analysis.ack_rtt)tcp.analysis.ack_rtt,
COUNT(tcp.analysis.retransmission)tcp.analysis.retransmission,
BYTES"
> nomeFile



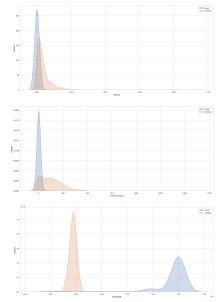
Estrazione delle features



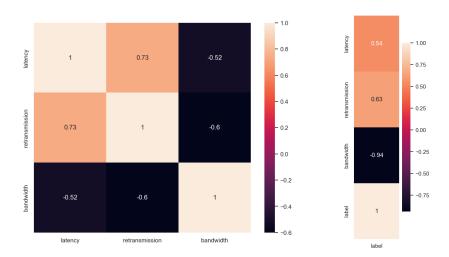
3D Feature Space with Colored Labels



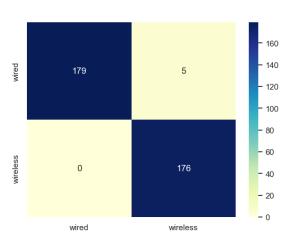
Distribuzione delle features rispetto alla classe



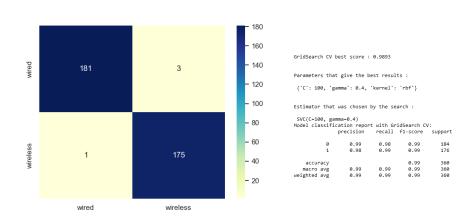
Correlazione



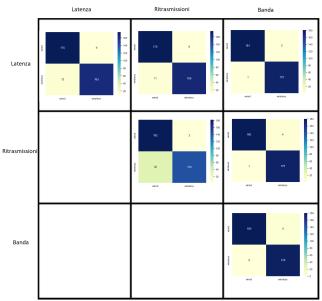
Logistic Regression



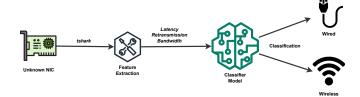
- Accuracy on the test set: 0.986
- F1 on the test set: 0.985

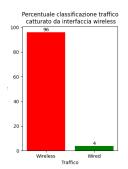


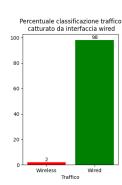
Impatto delle singole features

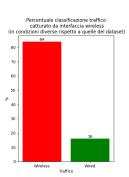


Test su traffico live









Impatto sulle prestazioni

