

**DEVELOPMENT OF A YOLO-BASED COMPUTER VISION
ALGORITHM FOR
AUTOMATED DETECTION AND QUANTIFICATION OF INHIBITION
ZONES IN PETRI DISH ASSAYS**



By

Athaya Elryan Ade Nawatra

22010036

School of Health and Life Sciences

i3L University

In partial fulfillment of the requirements for the Bachelor's degree of
Biotechnology

Jakarta, Indonesia

2026