RANCANG BANGUN APLIKASI TUMBUH KEMBANG BALITA STUNTING DENGAN MENGGUNAKAN ALGORITMA K-MEANS CLUSTERING BERBASIS ANDROID (STUDI KASUS : PUSKESMAS PONDOK RANJI)

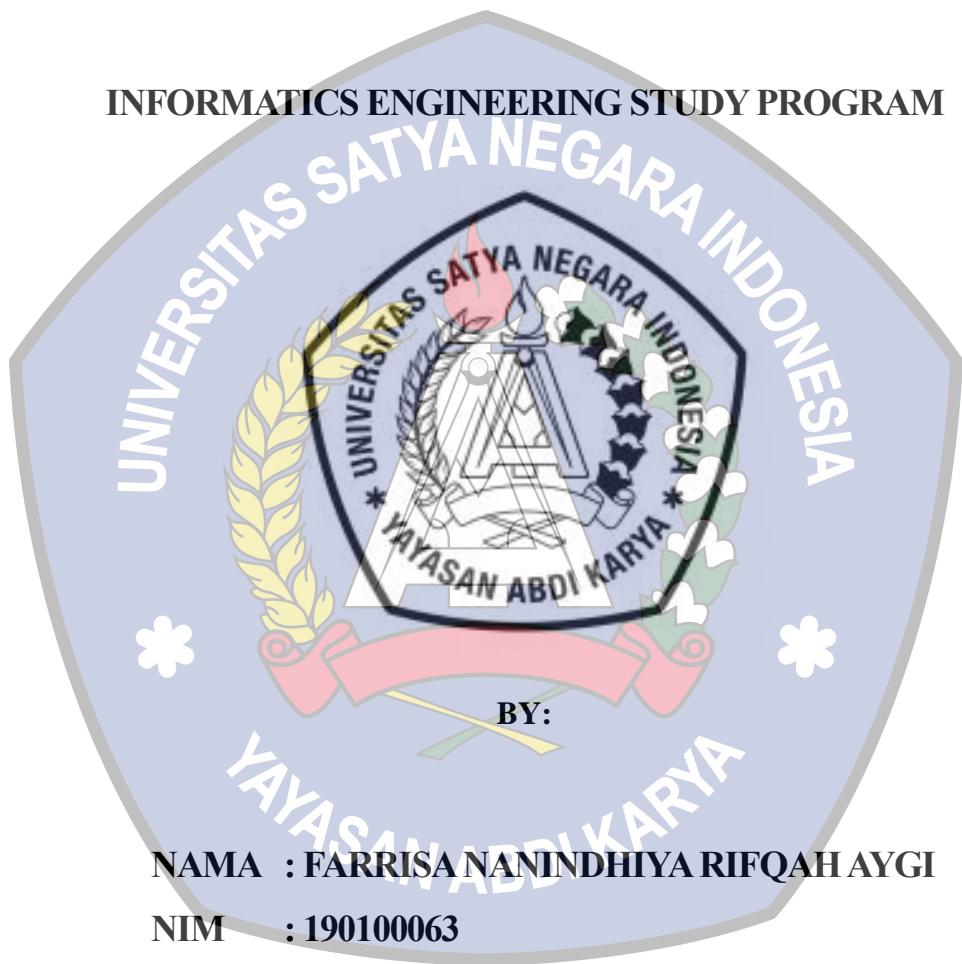## SKRIPSI

PROGRAM STUDI TEKNIK INFORMATIKA

OLEH :

NAMA : FARRISA NANINDHIYA RIFQAH AYGI

NIM   : 190100063

FAKULTAS TEKNIK
UNIVERSITAS SATYA NEGARA INDONESIA
JAKARTA
2023

**DESIGN AND DEVELOPMENT OF STUNTING TODDLERS'
GROWTH APPLICATION USING ANDROID-BASED K-MEANS
CLUSTERING ALGORITHM (CASE STUDY: PONDOK RANJI
COMMUNITY HEALTH CENTER)**

UNDERGRADUATE THESIS

INFORMATICS ENGINEERING STUDY PROGRAM

BY:

NAMA   : FARRISA NANINDHIYA RIFQAH AYGI

NIM   : 190100063

FACULTY OF ENGINEERING

UNIVERSITAS SATYA NEGARA INDONESIA

JAKARTA

2023

ABSTRAK

Tumbuh kembang balita stunting merupakan permasalahan kesehatan yang sangat penting di dunia. Kurangnya informasi serta pemahaman bagi orang tua dan masyarakat dalam memberikan perawatan mengenai stunting dapat menghambat pertumbuhan anak, Penelitian ini menggunakan algoritma k-means clustering untuk mengelompokkan data berdasarkan tingkat stunting pada balita. Untuk menangani permasalahan tersebut penulis akan mengembangkan aplikasi tumbuh kembang balita stunting untuk mengetahui balita stunting dan non stunting, perancangan sistem menggunakan dart dengan framwork flutter dan firebase.

Kata Kunci : Stunting, Balita, Masyarakat, Algoritma, K-means Clustering.

ABSTRACT

Growth and development of stunting toddlers is a very important health problem in the world. Lack of information and understanding for parents and the community in providing care regarding stunting can hinder children's growth. This study uses the k-means clustering algorithm to classify data based on the level of stunting in toddlers. To deal with these problems the author will develop an application for growth and development of stunting toddlers to find out stunting and non-stunting toddlers, system design using darts with the Flutter and Firebase frameworks.

Keywords: *Stunting, Toddlers, Community, Algorithm, K-means Clustering.*