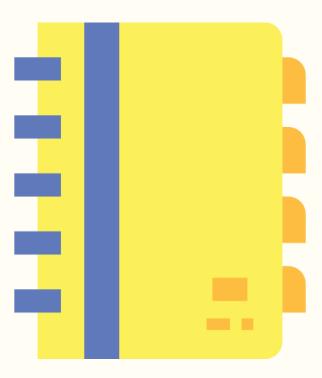


RATIONALE

Child Care Convenience

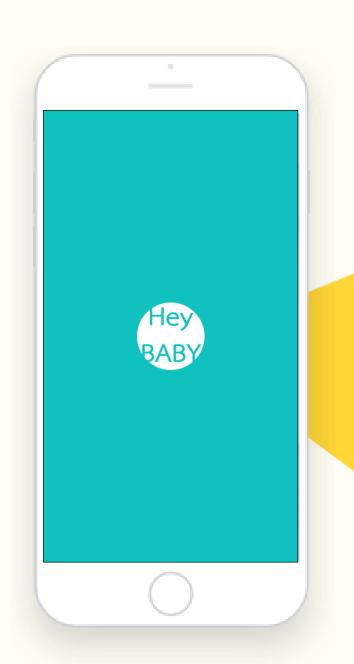




Recording

Tracking

Notification





OBJECTIVES





Length/Height

Weight

Head Circumference





Tracking

Child Development

Vaccine

Abnormal Symptoms





Recording

Health

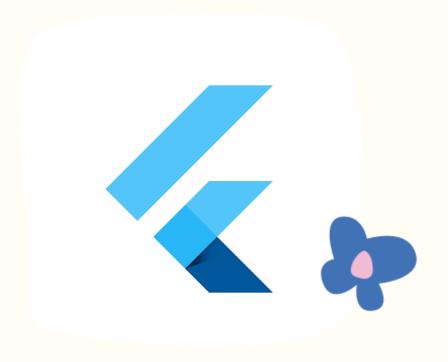
Medical History

Health Conditions

tools







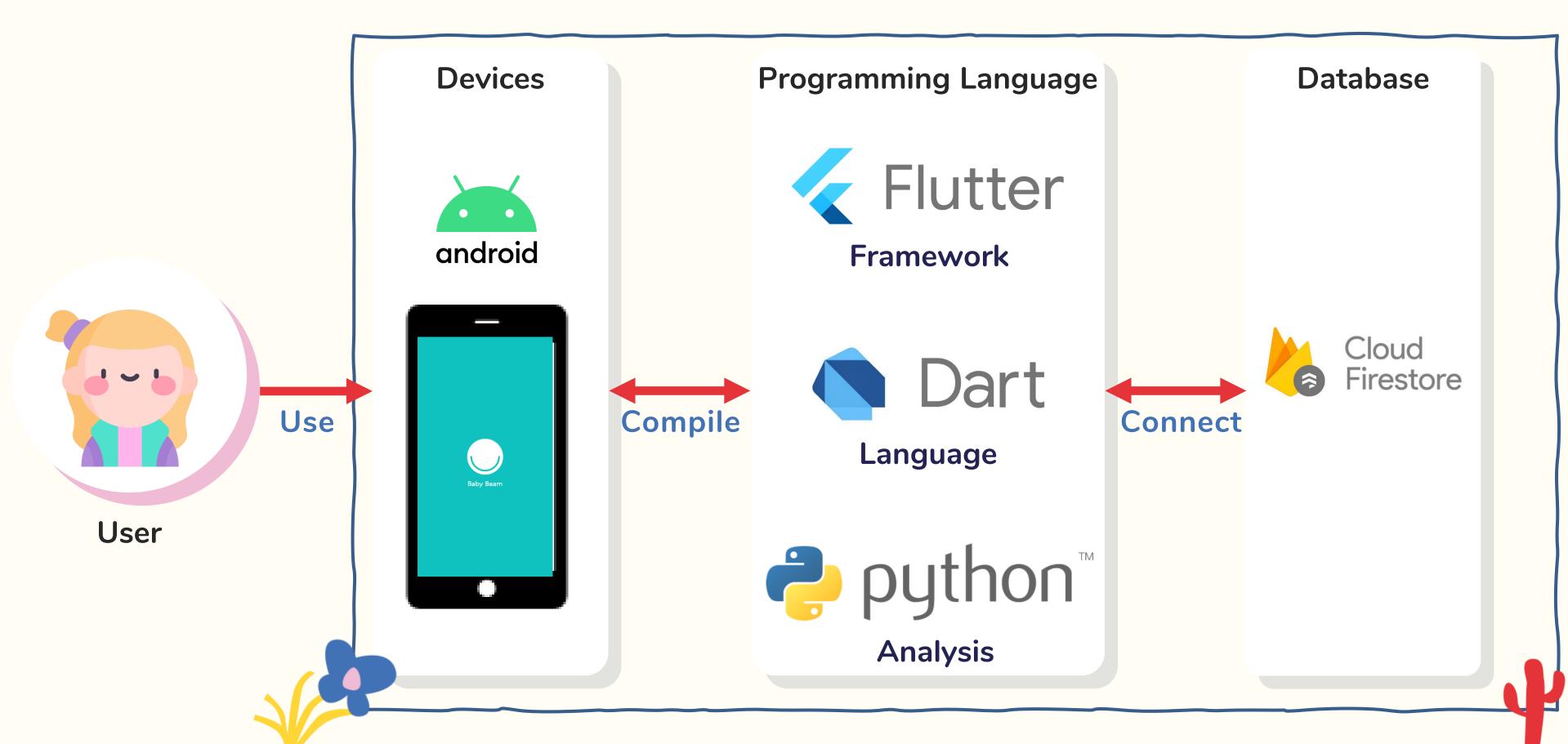




Firebase

ARCHITECTURE DIAGRAM





THEORY OF DATA



Health Information

Recording and tracking weight function for children 0 - 10 years

Height/BMI function for children 0 - 19 years

Head circumference tracking function for children 0 - 5 years

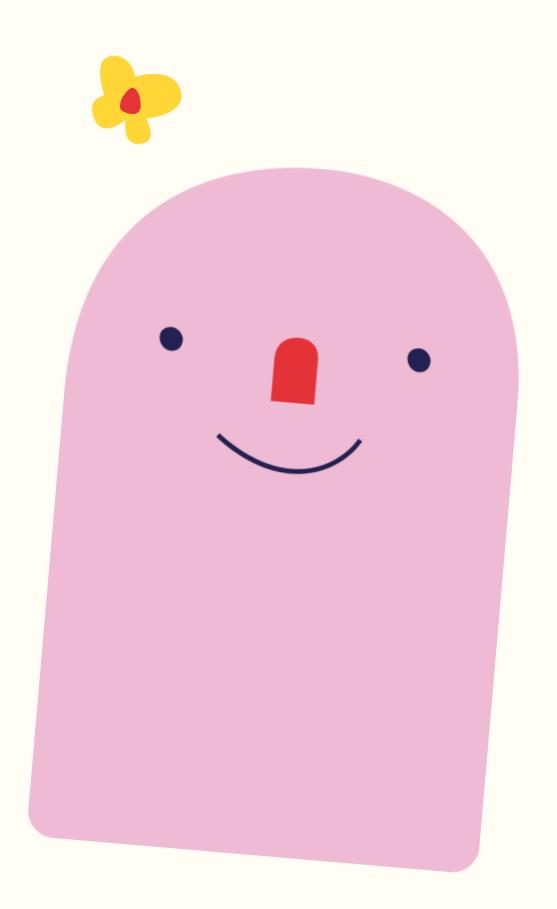
Child Development

Child development tracking function for children 0 – 6 years

Vaccine

Vaccine tracking function for children function for children 0 – 12 years





DATA ANALYTIC

Personal Health with Predictive Analytics

Length/Height

Weight

Head Circumference

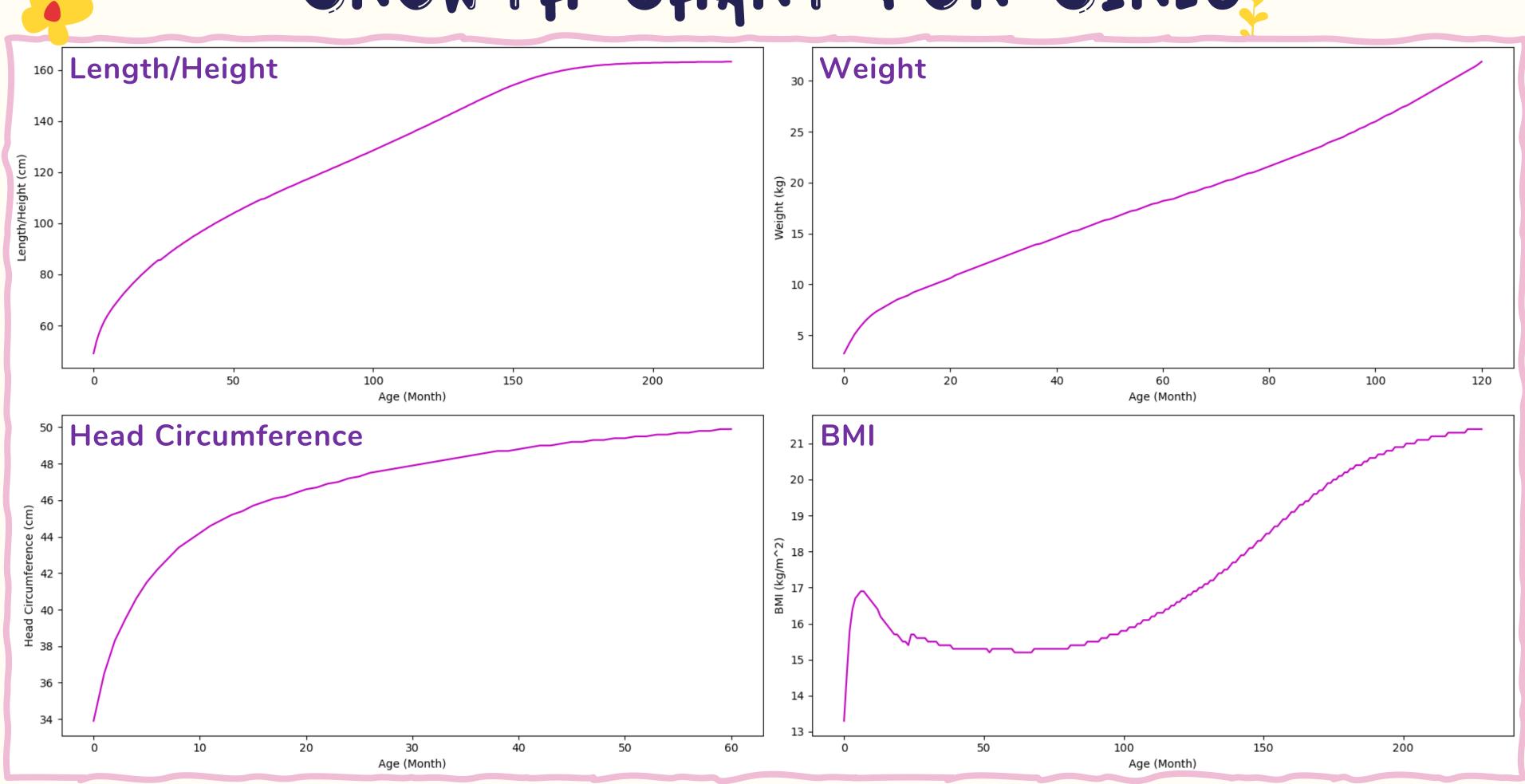
BMI



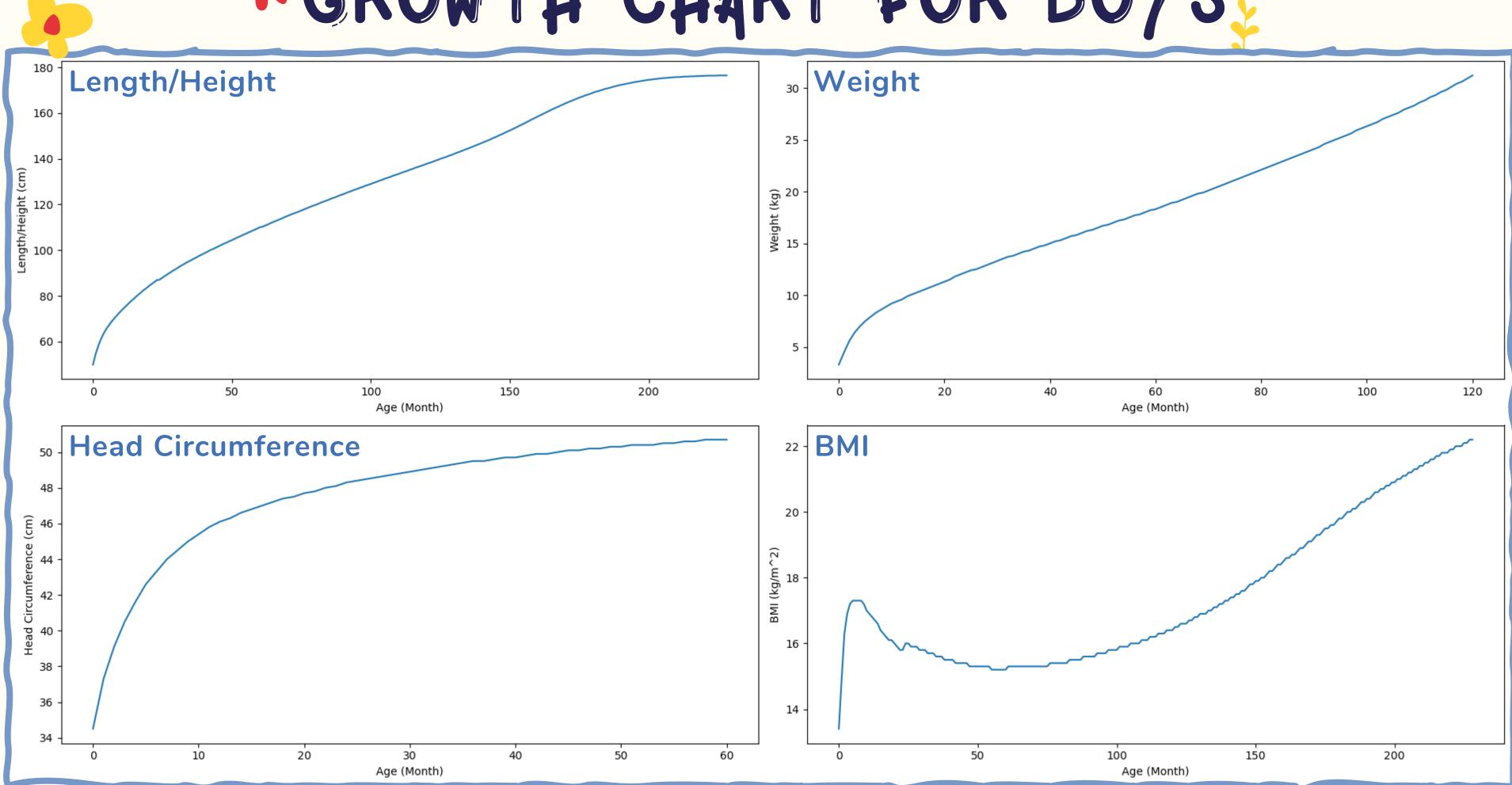
HEIGHT PREDICTION*



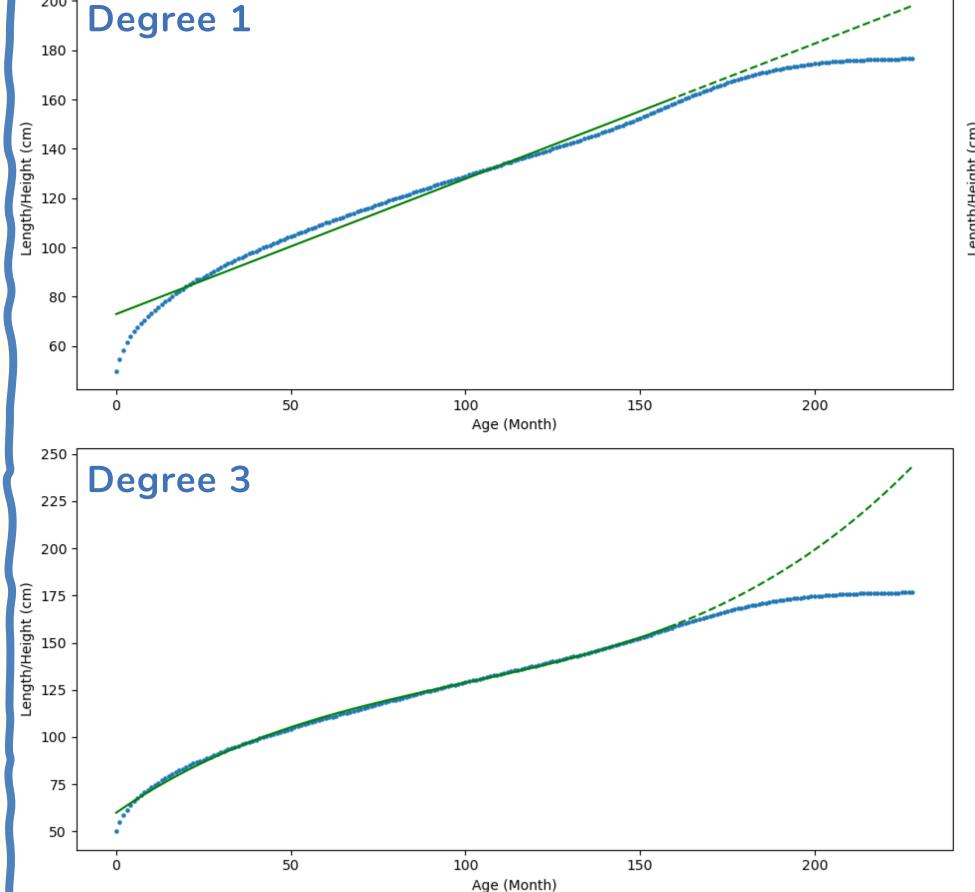
*GROWTH CHART FOR GIRLS

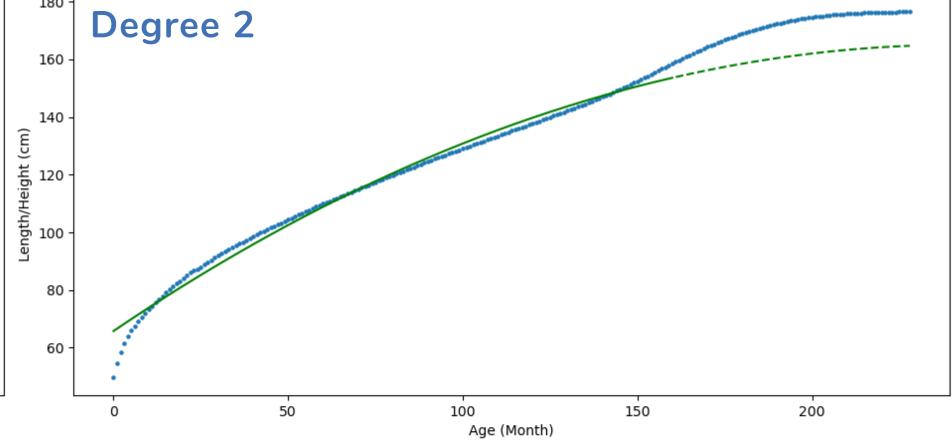


*GROWTH CHART FOR BOYS



HEIGHT PREDICTION FOR BOY





Polynomial Degree 1

Error: 10075.937395514444

Polynomial Degree 2

Error: 9567.000650841652

Polynomial Degree 3

Error: 66784.72700807691

70% Train set 30% Test set

AGE RANGE PREDICTION



Birth to 2 years 2 to 5 years

Head Circumference

Birth to 2 years

2 to 5 years

5 to 10 years

Weight

Birth to 2 years

2 to 5 years

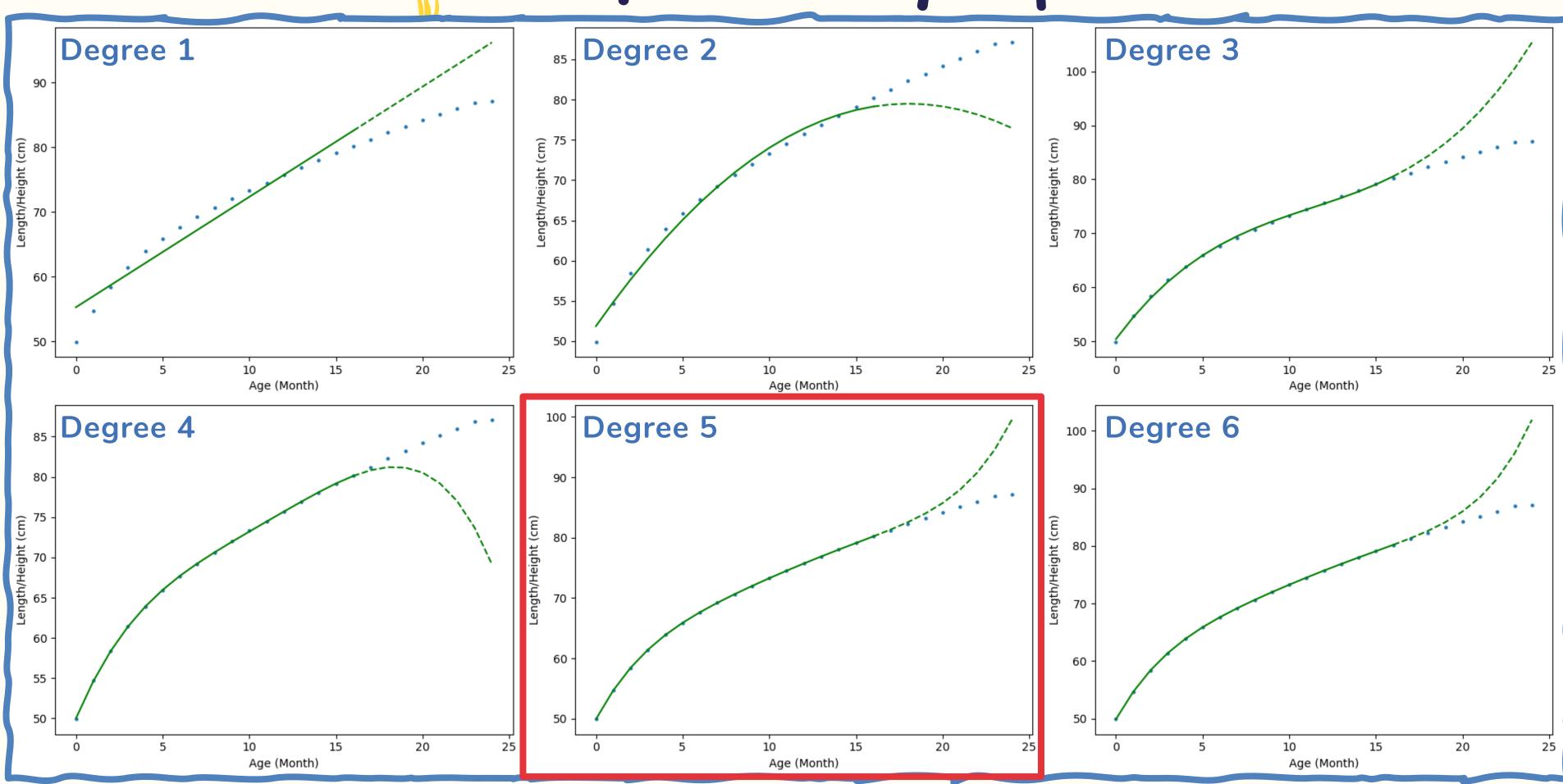
5 to 19 years

Length/Height

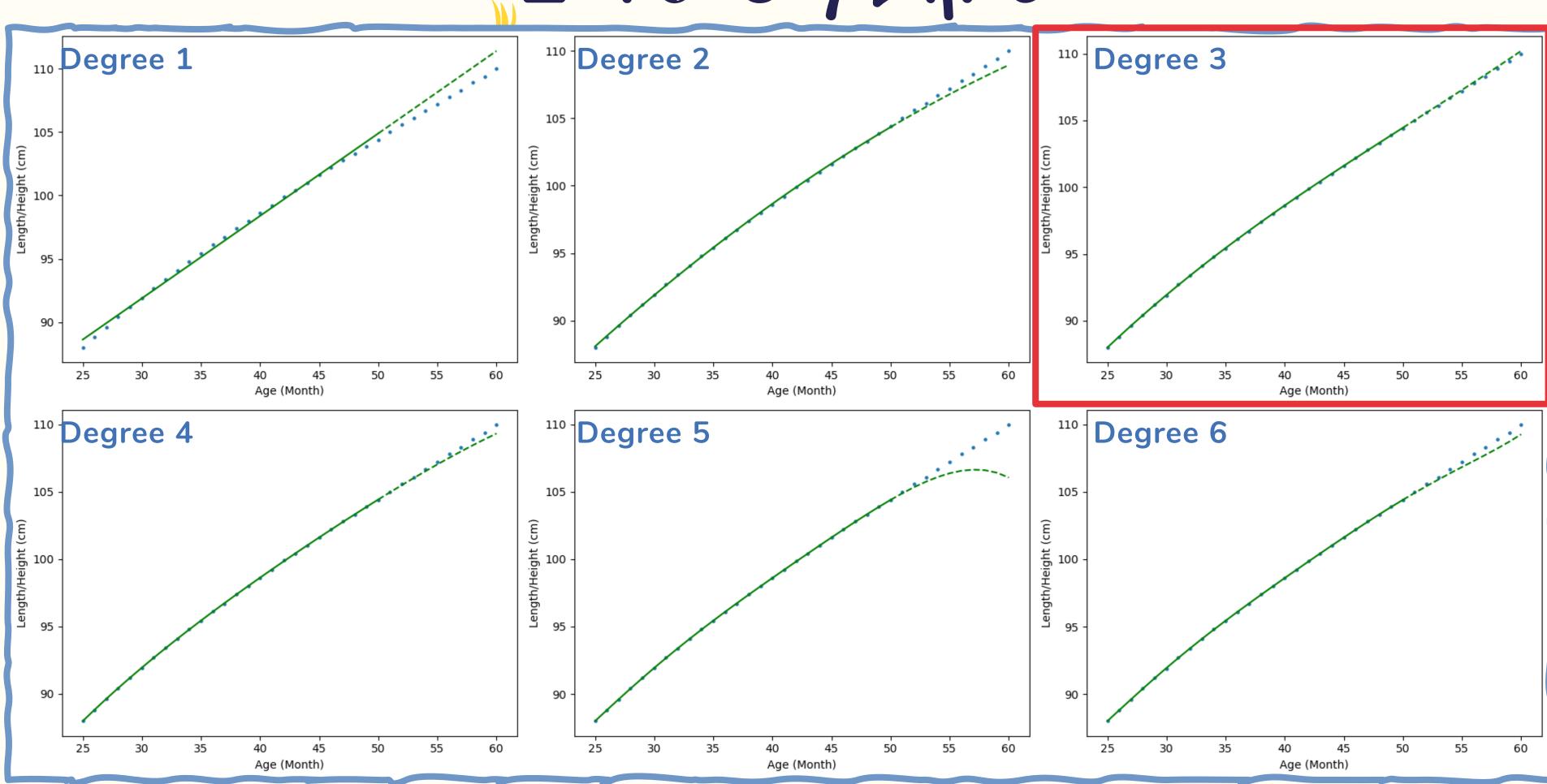
&

BMI

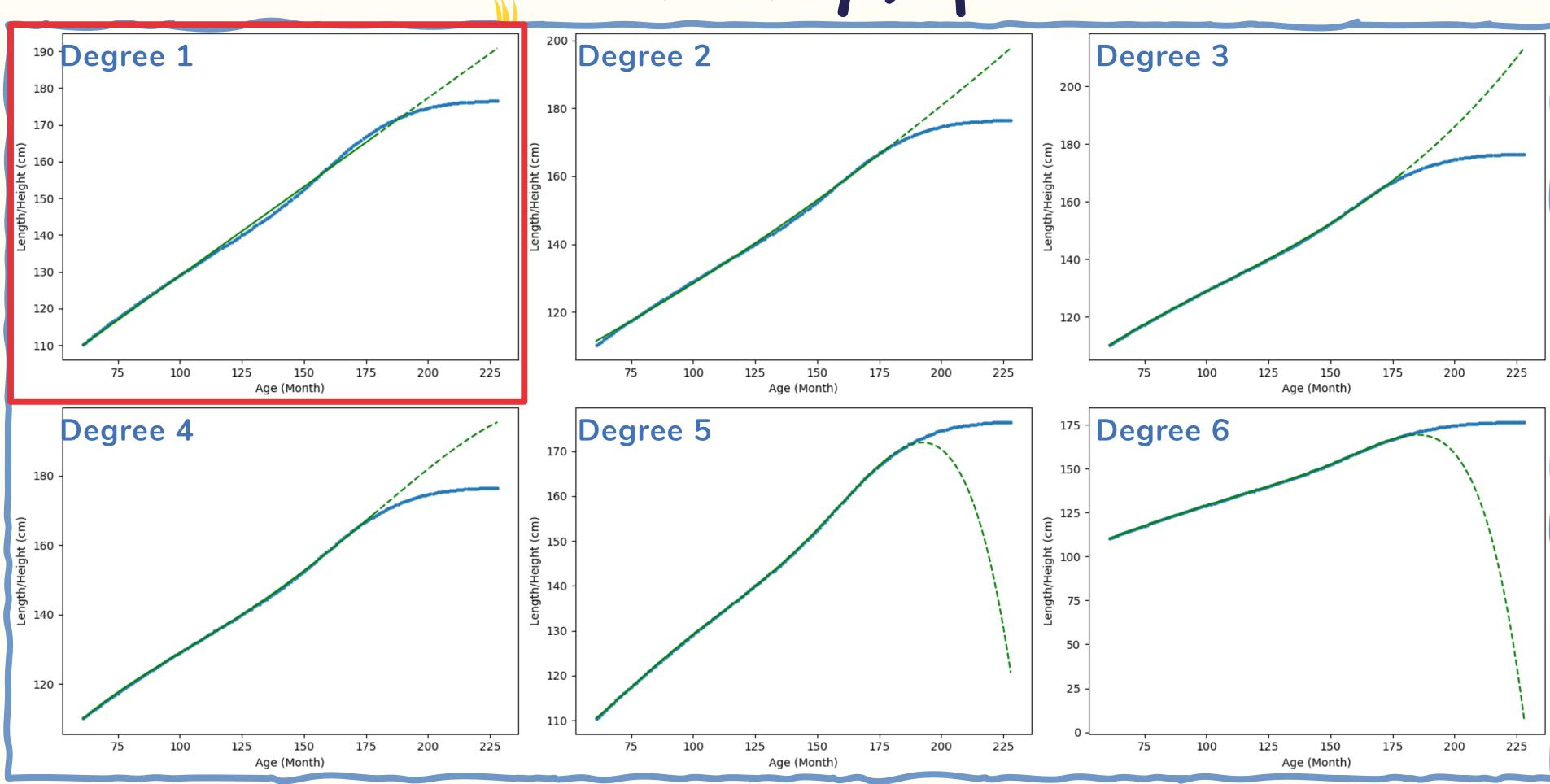
BIRTH TO 2 YEARS



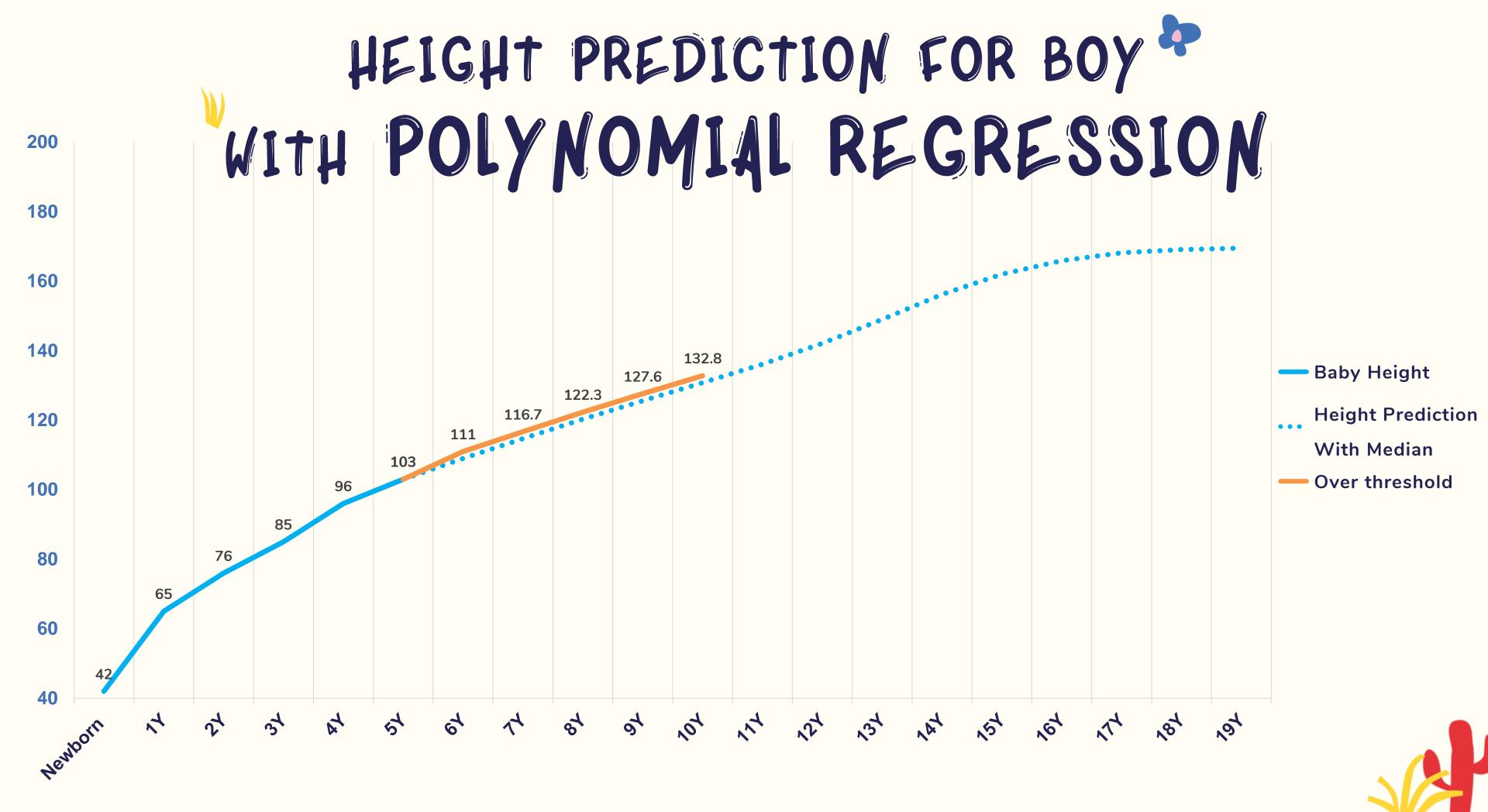
2 to 5 years



5 to 19 YEARS*



HEIGHT PREDICTION FOR BOY WITH MEDIAN 160 137.8 140 132.6 130.8 127.3 125.6 121.7 120.3 120 116 Median 110 109 Baby Height 103.3 ... Height Prediction 100 96.1 96 87.1 85 80 75.7 **60** 40 **2Y 3Y 4Y 5Y 6Y 7Y 8Y 9Y** 10Y **1Y** Newborn





4

Step 1:

Step 2:

Step 3:

Step 4:

Step 5:

Step 6:

Step 7:

Survey

Define scope

Research tools

Design

Implementation

Testing

Writing report

JUL				
AUG				
SEP				
OCT				
NOV				
DEC				
JAN				
FEB				
MAR				









600612161

Pakhatai Kantang

600612165

Ratthathammanoon Niwanti