machine learning def→
field of cs that - uses statistical tools and
techniques to give computors the ability to
learn with the data, without being explicitly
programmed.

→ data → algorithms→ patterns→ input → program
↓
output

when used→ scenarios→

① You can't write program for everything
↓
email fродd / spam detection.

② image_classification.
↓
create a program for detection of a dog.
↓
1000+ breeds of dogs
↓
can't write a program for each.

Data analytiss→ with statistical tools finding
hidden patterns and insights of a data.

data mining→ applying ML algorithms on data
to find insights (like finding
email as a frod. without keywords)