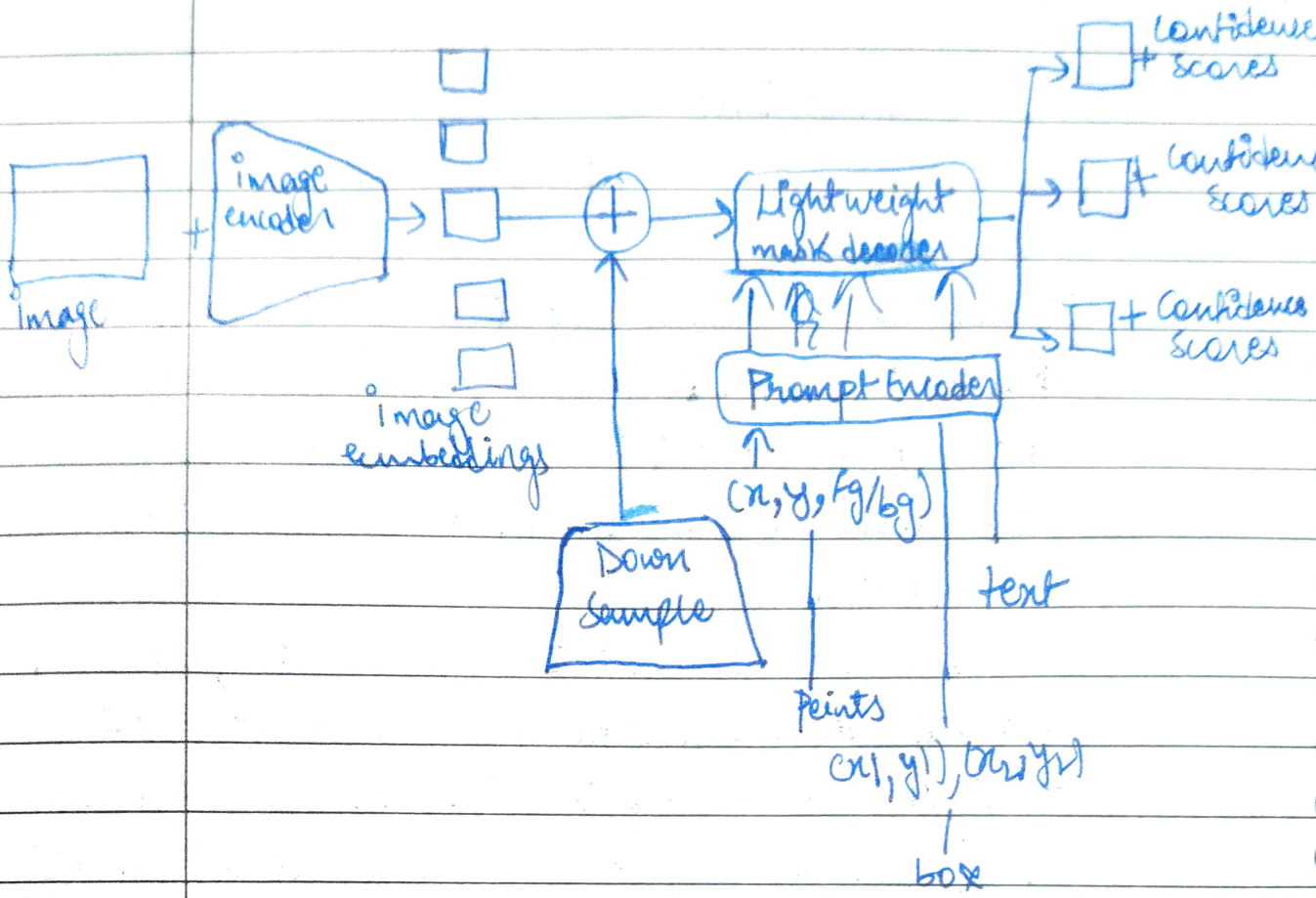
Date:-
29th December, 2025

First DAY at Business

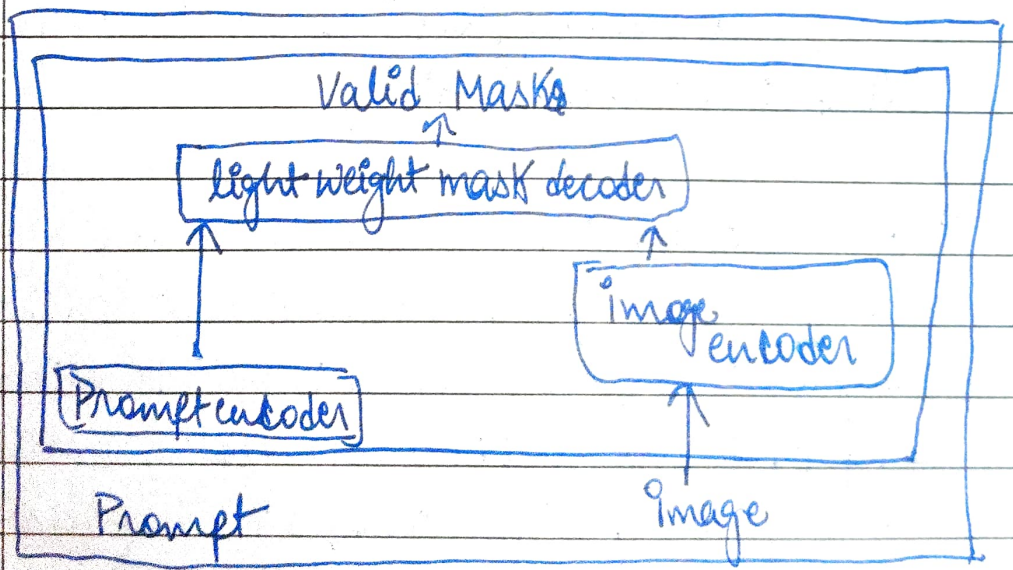
Today I launched my first official business 'HOLO&DAD' yes Shivang the guy who got 40% at a point in his life now owns his own made company. So let's start from the starting. 😉

In 2024 December 29th I had a vision, an idea, a imagination about holograms but at that time I didn't have any prior knowledge of Holograms's I did research about them I noticed 'SAM1', 'SAM2' and 'SAM3' where ["SAM - Segment Anything Model"]. What's Segment Anything Model [SAM] ?

→ Segment Anything Model (SAM) is an advanced AI model developed by Meta AI that can identify and segment any object in an image with minimal human input. Unlike traditional segmentation models that are trained for specific tasks, SAM is promptable which means it can respond to inputs like points, boxes or masks to extract the object of interest even if it's never seen it before. It is trained on a massive dataset of multiple masks and generalizes well across various domains and enables zero shot segmentation.



How does it work?



WORKING OF SAM

SAM Architecture has three parts:

1. Image Encoder (ViT Vision Transformer)
2. Prompt Encoder
3. Mask Decoder

So you Inspired from SAM. Right?

No. I got my Inspiration from butterfly equation
Do you Know butterfly equation?
Nopes.
Butterfly equation:- The beutiful butterfly curve has mathematical parametric equations.

$$X = \sin(t) \times \left(e^{(\cos(t))} - 2\cos(4t) - \sin^5\left(\frac{t}{12}\right)\right),$$
$$Y = \cos(t) \times \left(e^{(\cos(t))} - 2\cos(4t) - \sin^5\left(\frac{t}{12}\right)\right),$$

for $0 \le t \le 12\pi$

Or Polar eqn

$$r = e^{\sin\theta} - 2\cos(4\theta) + \sin^5\left(\frac{2\theta - \pi}{24}\right)$$

NOTE:- In 2006, two mathematician using Mathematica analyzed the function and found variants where leaves, flowers, or other insects became apparent.

Then born the dream an imagination of creating mathematical equations for humans so we can be beutiful as the Insects & leaves etc.

"Mathematical equation Generator". (MEG)

So Holopad is the combination of both

- SAM + MEG = Holopad ± Z axis