



# Google's AI camera

An Approach to Computational Photography

September 28, 2018

Not long ago, people would have to carry around cameras to click photos for every occasion. Due to technological advancements, we can get our photographs clicked and edited on our smartphones itself. However, for certain occasions, a mobile phone camera's specifications aren't good enough and we have to resort to using professional camera equipment.

Smartphone makers continue to focus their product launches on one thing: "Hardware". High-end hardware specifications are valued only when they work together with the software to deliver a superior experience. However, Google primarily being a software company is planning on taking this one step further by adding AI-powered features to a mobile camera. Soon, we will be able to capture professional level photos on ordinary mobile phone cameras.



The key focus of Google Camera is the **HDR+enhanced** and the **Portrait Mode** that uses a single lens. Google Camera, the native camera application found on the Pixel Phones uses burst photography, some focusing techniques and few computation tricks to achieve pleasing photographs in a wide range of photographic situation.