## On-Device Text Image Super Resolution

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## SOLUTION

We propose a lightweight SR model that runs **on-device** in **real-time** and shows significant improvement in text clarity compared to bicubic upsampling. We extract features from **sobel edge maps** for sharper edges.

## RESULTS

Our model with features extracted from sobel edge maps is able to produce sharp edges in the SR images on both scene and document images. We achieve an OCR accuracy of **75.89%** on TextSR dataset using Tesseract whereas the original HR images give an accuracy of **78.1%**.