This chapter considers the impact of frontier technologies on inequalities through the production's lens.

> **Technological change impacts** inequalities through its effect on jobs, wages and profits.

lef call(self, x): x = self.conv1(x) x = self.flatten(x) x = self.d1(x)

odel = MyModel()

with tf.GradientTape() as tape: logits = model(images) loss_value = loss(logits, labels)

grads = tape.gradient(loss_value, model.trainable_variables) optimizer.apply_gradients(zip(grads, model.trainable_variables))

The channels of impact of frontier technologies are not different from previous technologies, but each wave of technological change brings inequality in new shapes. Today, major concerns are related to risks of:

Automation taking jobs in large scale

Job polarization

The gig economy and the reduction of labour rights

The inequalities created by market and profit concentration

Increase of inequality driven by Al

Widening technological gaps

Developing countries face particular challenges:



To benefit from frontier technologies, countries need to promote their use, adoption and adaptation, while addressing their potential adverse effects.