Matrícula: 20232011270233

último dígito de sua matrícula:
0-1: rotation
2-3: shifts
4-5: flips
5-7: Brightness
8-9: Zoom

penúltimo dígito de sua matrícula:
0-1: rotation
2-3: shifts
4-5: flips
5-7: Brightness
8-9: Zoom

Caso a sua combinação resulte em duas técnicas iguais, escolha outra! pois deve ser diferente.

Técnicas escolhidas: shifts; flips

O notebook também deve possuir data augmentation na inferência. Só que todos irão usar apenas brilho, variando de 50% de redução até 50% de aumento.

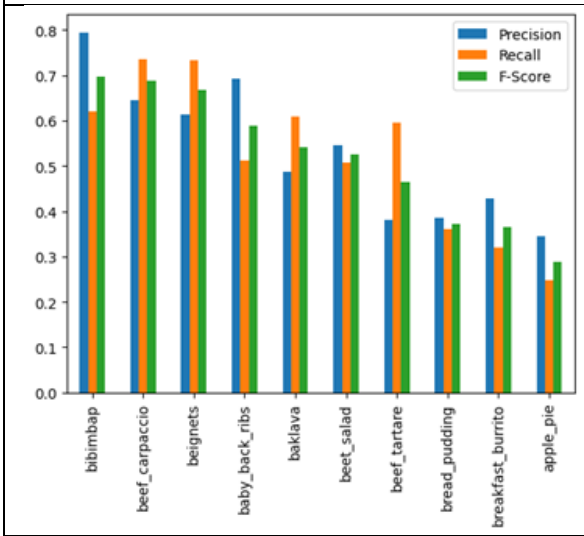
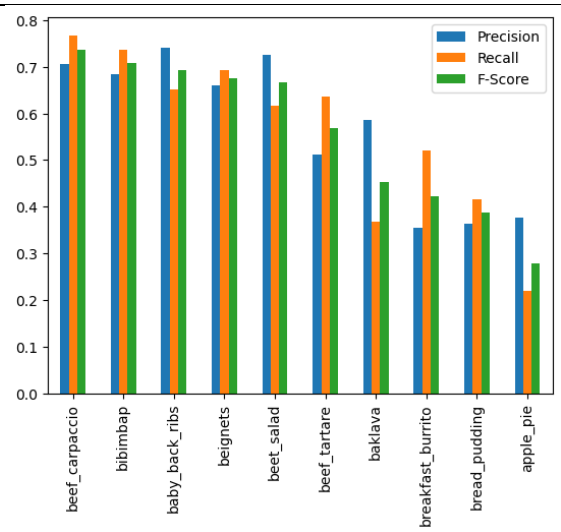
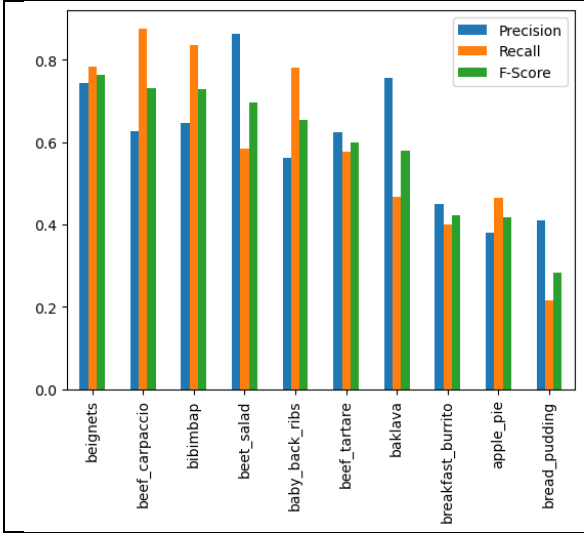
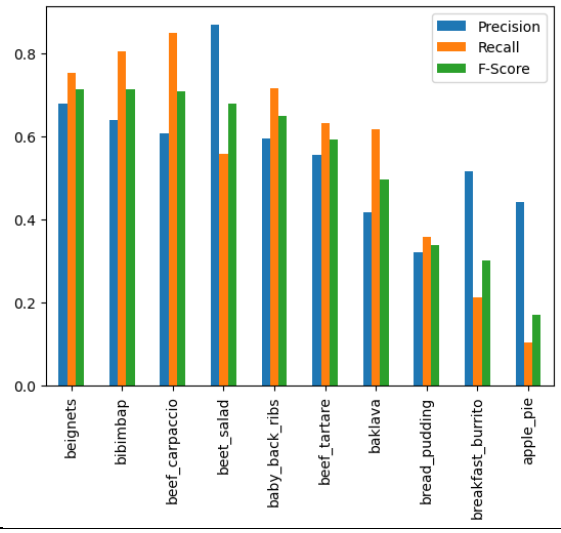
O que deverá ser entregue:

1 . Um notebook compartilhado ou imagem do docker ou outra solução auto suficiente. O modelo pre-treinado já deve estar presente no drive.(fornecer também o compartilhamento do arquivo do drive)

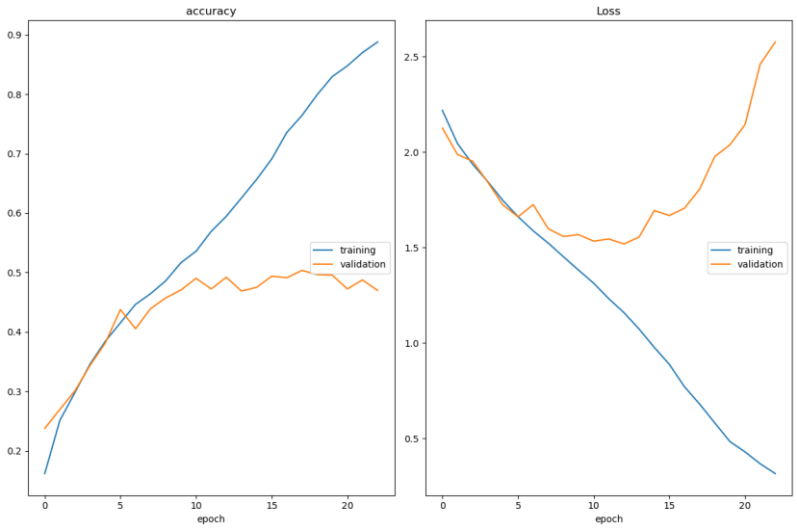
https://colab.research.google.com/drive/1UIJHL3LclgmiztyrxBZg5m00D6zTReLg?usp=sharing

2 . Um Gráfico contendo os achados, como descrito neste artigo https://www.philstat.org/index.php/MSEA/article/view/2329

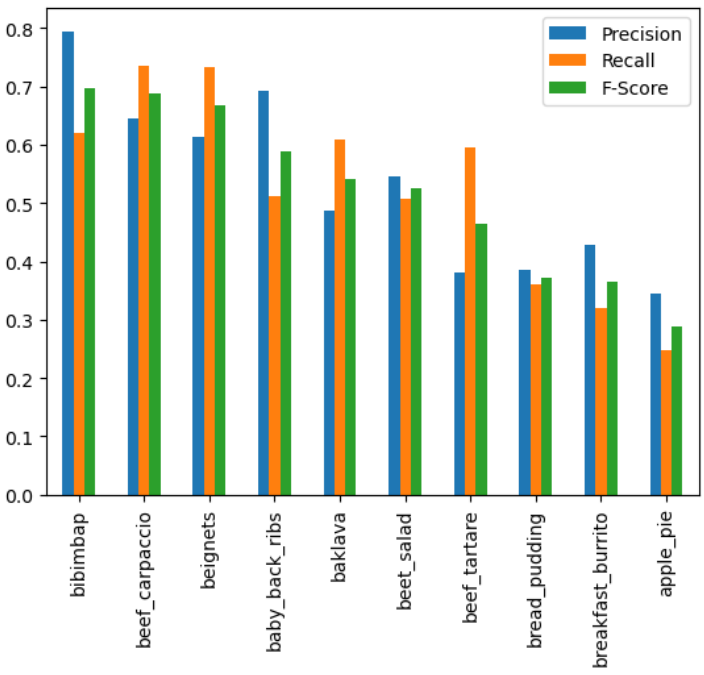
Comparação dos resultados de teste:

Sem data augmentation	Data augmentation – flips
	
Data augmentation – shifts	**Data augmentation – flips and shifts**
	

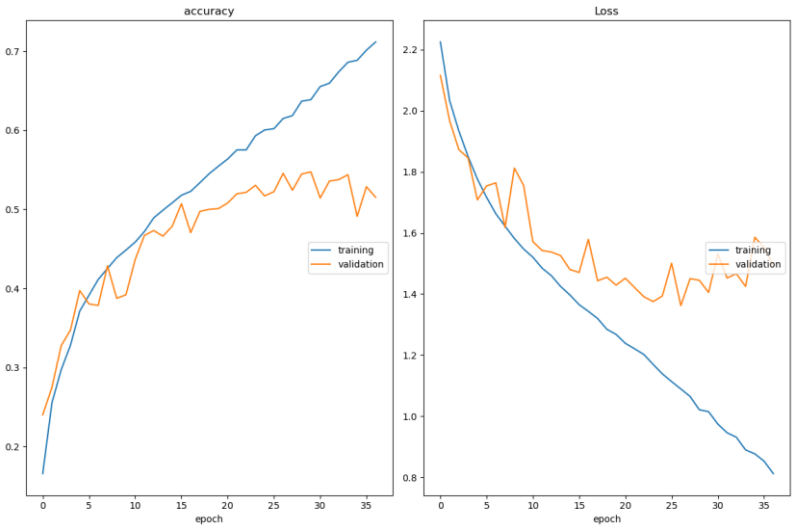
1. Sem data augmentation



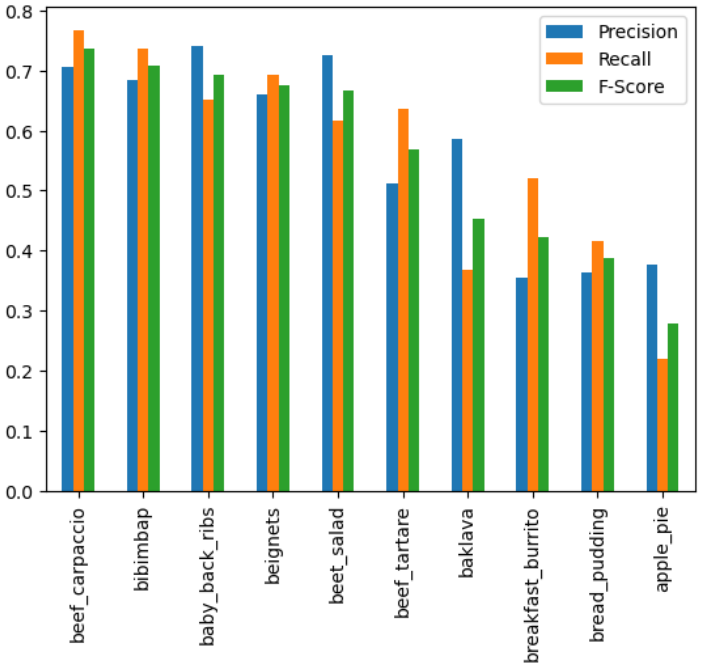
	Precision	Recall	F-Score	Support
bibimbap	0.794872	0.620	0.696629	250.0
beef_carpaccio	0.645614	0.736	0.687850	250.0
beignets	0.614094	0.732	0.667883	250.0
baby_back_ribs	0.691892	0.512	0.588506	250.0
baklava	0.487179	0.608	0.540925	250.0
beet_salad	0.545064	0.508	0.525880	250.0
beef_tartare	0.381074	0.596	0.464899	250.0
bread_pudding	0.384615	0.360	0.371901	250.0
breakfast_burrito	0.427807	0.320	0.366133	250.0
apple_pie	0.344444	0.248	0.288372	250.0



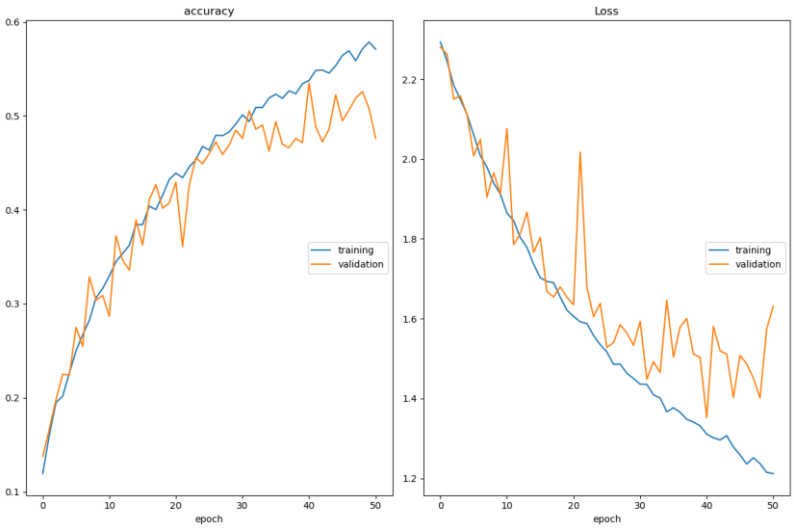
2. Data augmentation – flips



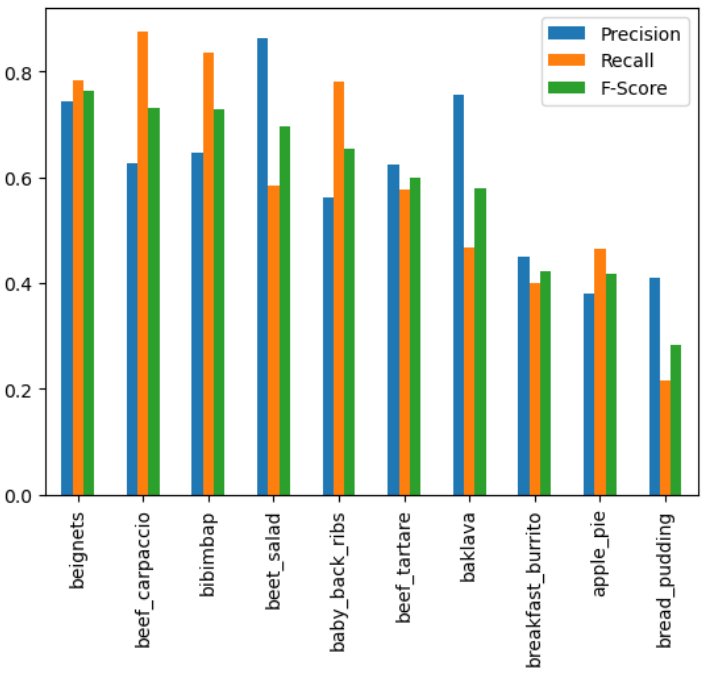
	Precision	Recall	F-Score	Support
beef_carpaccio	0.705882	0.768	0.735632	250.0
bibimbap	0.684015	0.736	0.709056	250.0
baby_back_ribs	0.740909	0.652	0.693617	250.0
beignets	0.660305	0.692	0.675781	250.0
beet_salad	0.726415	0.616	0.666667	250.0
beef_tartare	0.512903	0.636	0.567857	250.0
baklava	0.585987	0.368	0.452088	250.0
breakfast_burrito	0.355191	0.520	0.422078	250.0
bread_pudding	0.363636	0.416	0.388060	250.0
apple_pie	0.376712	0.220	0.277778	250.0



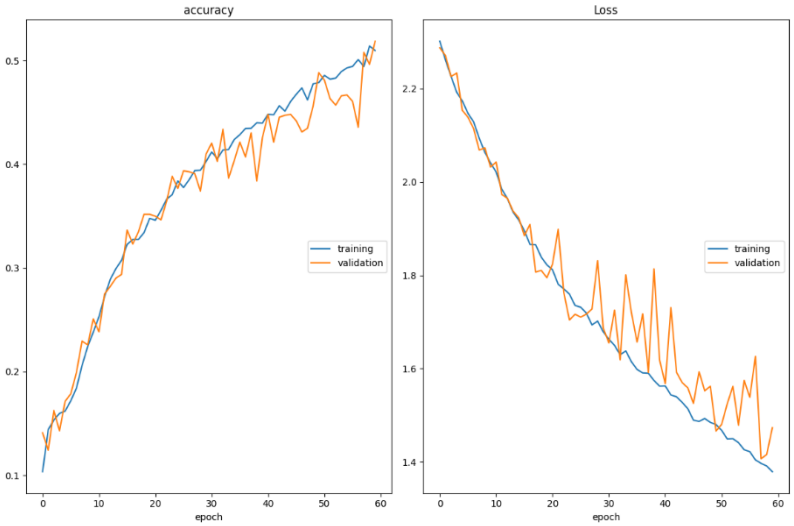
3. Data augmentation – shifts



	Precision	Recall	F-Score	Support
beignets	0.742424	0.784	0.762646	250.0
beef_carpaccio	0.627507	0.876	0.731219	250.0
bibimbap	0.645062	0.836	0.728223	250.0
beet_salad	0.863905	0.584	0.696897	250.0
baby_back_ribs	0.561960	0.780	0.653266	250.0
beef_tartare	0.623377	0.576	0.598753	250.0
baklava	0.754839	0.468	0.577778	250.0
breakfast_burrito	0.448430	0.400	0.422833	250.0
apple_pie	0.379085	0.464	0.417266	250.0
bread_pudding	0.409091	0.216	0.282723	250.0



4. Data augmentation – flips and shifts



	Precision	Recall	F-Score	Support
beef_carpaccio	0.806604	0.684	0.740260	250.0
beet_salad	0.745370	0.644	0.690987	250.0
bibimbap	0.691667	0.664	0.677551	250.0
beignets	0.479303	0.880	0.620592	250.0
baby_back_ribs	0.468531	0.804	0.592047	250.0
beef_tartare	0.542125	0.592	0.565966	250.0
baklava	0.554839	0.344	0.424691	250.0
breakfast_burrito	0.480916	0.252	0.330709	250.0
bread_pudding	0.310204	0.304	0.307071	250.0
apple_pie	0.350000	0.196	0.251282	250.0