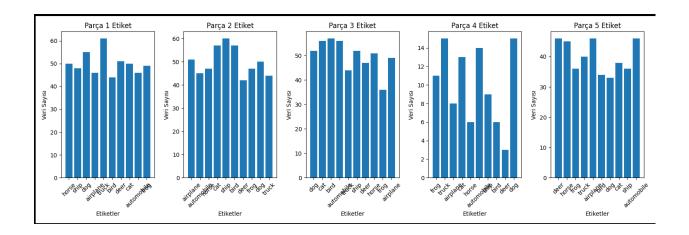
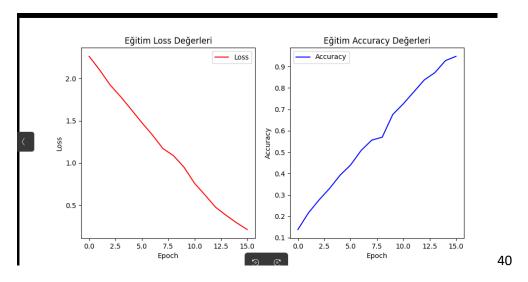
Model:

```
class SimpleCNN(nn.Module):
def __init__(self):
 super(SimpleCNN, self).__init__()
     self.convLayer1 = nn.Conv2d(3, 32, 5)
     self.maxPool = nn.MaxPool2d(2, 2)
                                                         # Max Pool
     self.convLayer2 = nn.Conv2d(32, 64, 5)
     self.drop1 = nn.Dropout(0.2, inplace=False)
     self.fullyc1 = nn.Linear(1600, 200)
     self.xav = nn.init.xavier normal (self.fullyc1.weight)
     self.fullyc2 = nn.Linear(200, 100)
     self.fullyc3 = nn.Linear(100, 10)
                                                         # Fully Con
def forward(self, img):
     img = self.maxPool(self.drop1(F.relu(self.convLayer1(img))))
     img = self.maxPool(self.drop1(F.relu(self.convLayer2(img))))
     img = img.view(-1, 64 * 5 * 5)
     img = F.relu(self.fullyc1(img))
     img = F.relu(self.fullyc2(img))
     img = self.fullyc3(img)
     return img
```

Cifar10 Dataset

Total data size: 2000

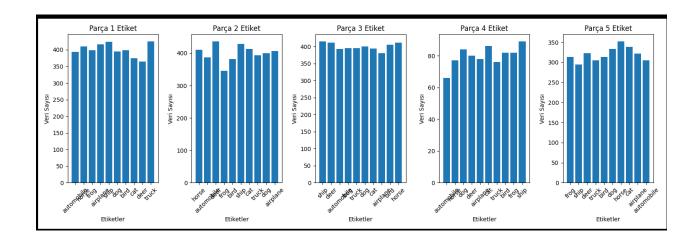


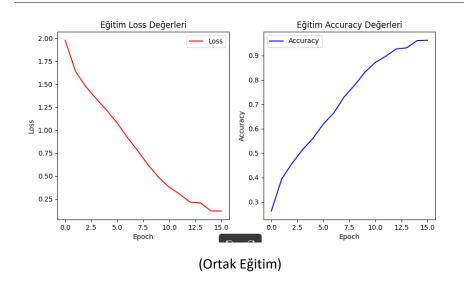


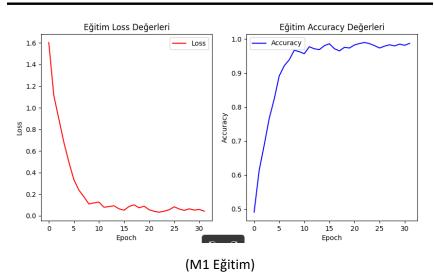
Ilk eğitim için training grafiği

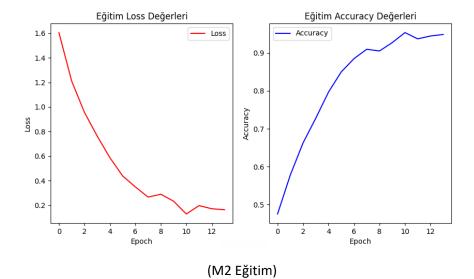
	Ortak Veri(Wi)	M1 Eğitim (W1)	M2 Eğitim (W2)	W1 – W2 Line Search	W1 – W2 – Wi Triangle Search	M1 + M2 (wF)
Accuracy(f1)	%40	%41	%42	%42	%47	%40

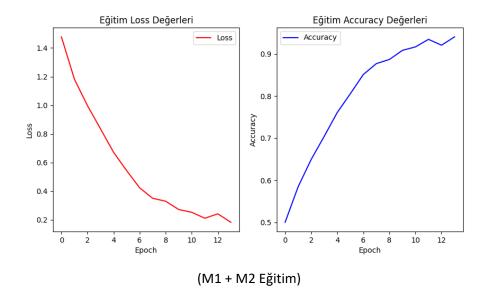
Total data size: 8000





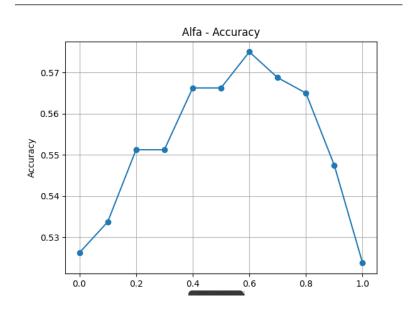




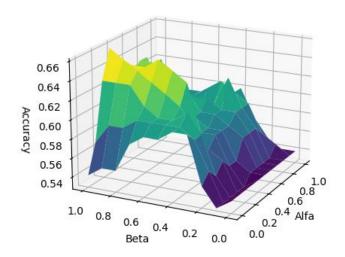


	Ortak Veri(Wi)	M1 Eğitim (W1)	M2 Eğitim (W2)	W1 – W2 Line Search (wL)	W1 – W2 – Wi Search	M1 + M2 (wF)
					(wU)	
Accuracy(f1)	%51	%52	%53	%57	%61	%55

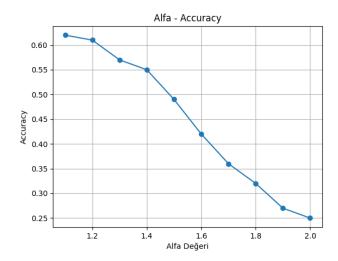
Searching Alfa – Beta Değerleri:



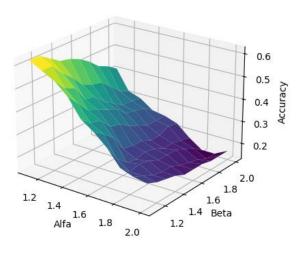
Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.66 (Alfa = 0.300000000000000) (Beta = 1.0)



Alfa - Beta - Accuracy Surface Plot

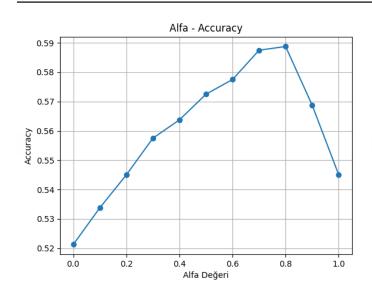


En yüksek accuracy değeri: 0.62 (Alfa = 1.1) (Beta = 1.1)

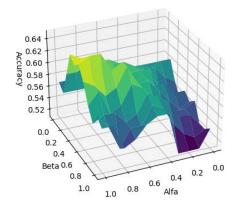
	W1 – W2 Line Search	W1 – W2 – Wi Search (Extrapolasyon)	W1 – W2 Line Search (wL)	W1 – W2 – Wi Search (wU)
	(Extrapolasyon)	(wU)		
Accuracy(f1)	%55	%52	%57	%61

	Ortak Veri(Wi)	M1 Eğitim (W1)	M2 Eğitim (W2)	W1 – W2 Line Search (wL)	W1 – W2 – Wi Search (wU)	M1 + M2 (wF)
Accuracy(f1)	%51	%52	%53	%57	%58	%54

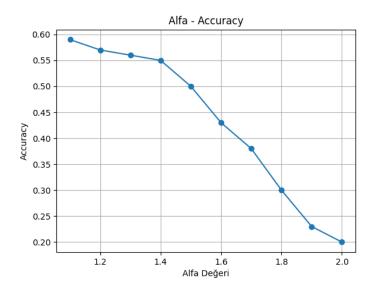
Searching Alfa – Beta Değerleri :



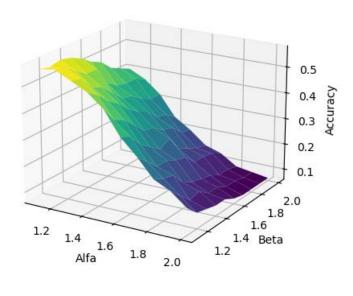
Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.65 (Alfa = 0.8) (Beta = 0.5)



Alfa - Beta - Accuracy Surface Plot



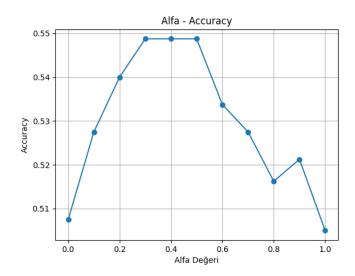
En yüksek accuracy değeri: 0.62 (Alfa = 1.1) (Beta = 1.1)

	W1 – W2 Line Search (Extrapolasyon)	W1 – W2 – Wi Search (Extrapolasyon) (wU)	W1 – W2 Line Search (wL)	W1 – W2 – Wi Search (wU)
Accuracy(f1)	%55	%52	%57	%58

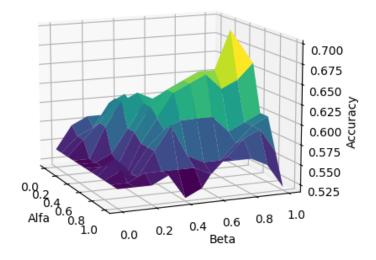
Seed = 99 için

	Ortak	M1 Eğitim	M2 Eğitim	W1 – W2	W1 – W2 –	M1 + M2
	Veri(Wi)	(W1)	(W2)	Line Search	Wi	(wF)
				(wL)	Search	
					(wU)	
Accuracy(f1)	%51	%48	%50	%55	%56	%54

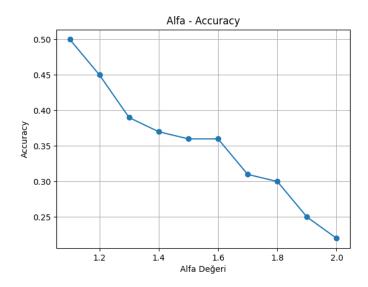
Searching Alfa – Beta Değerleri:



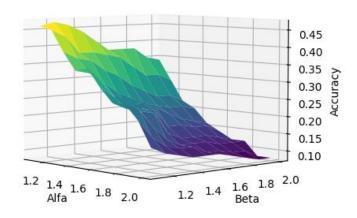
Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.7 (Alfa = 0.5) (Beta = 0.9)



Alfa - Beta - Accuracy Surface Plot

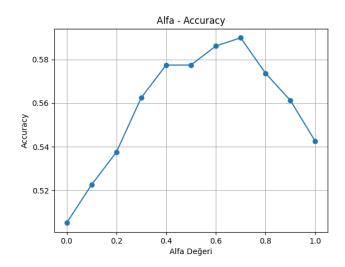


En yüksek accuracy değeri: 0.47 (Alfa = 1.1) (Beta = 1.200000000000000)

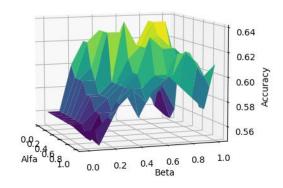
	W1 – W2	W1 – W2 – Wi	W1 – W2 Line	W1 – W2 – Wi
	Line Search (Extrapolasyon)	Search (Extrapolasyon) (wU)	Search (wL)	Search (wU)
Accuracy(f1)	%51	%47	%55	%56

	Ortak	M1 Eğitim	M2 Eğitim	W1 – W2	W1 – W2 –	M1 + M2
	Veri(Wi)	(W1)	(W2)	Line Search	Wi	(wF)
				(wL)	Search	
					(wU)	
Accuracy(f1)	%52	%54	%50	%57	%57	%54

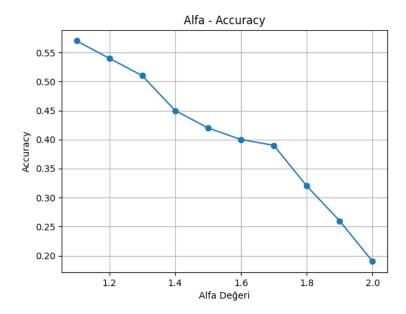
Searching Alfa – Beta Değerleri :



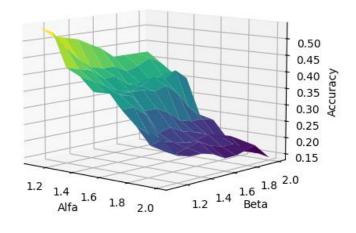
Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.64 (Alfa = 0.4) (Beta = 0.5)



Alfa - Beta - Accuracy Surface Plot



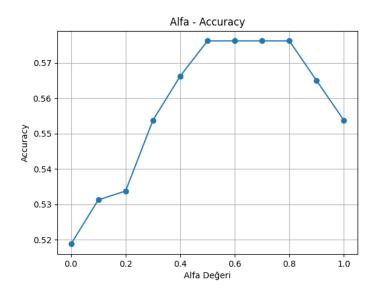
En yüksek accuracy değeri: 0.54 (Alfa = 1.1) (Beta = 1.1)

	W1 – W2	W1 – W2 – Wi	W1 – W2 Line	W1 – W2 – Wi
	Line Search (Extrapolasyon)	Search (Extrapolasyon) (wU)	Search (wL)	Search (wU)
Accuracy(f1)	%53	%52	%57	%57

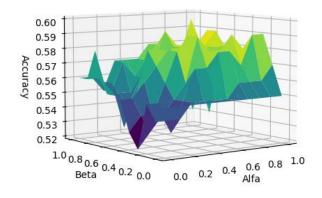
<u>Seed = 704 için</u>

	Ortak	M1 Eğitim	M2 Eğitim	W1 – W2	W1 – W2 –	M1 + M2
	Veri(Wi)	(W1)	(W2)	Line Search	Wi	(wF)
				(wL)	Search	
					(wU)	
Accuracy(f1)	%51	%52	%50	%55	%57	%55

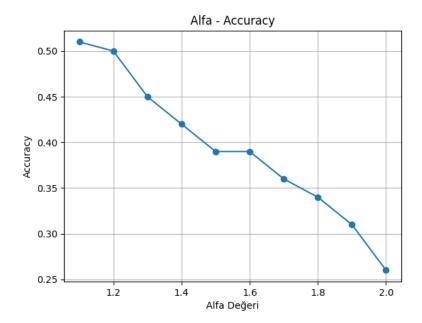
Searching Alfa – Beta Değerleri:



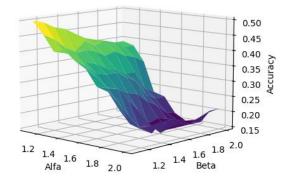
Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.6 (Alfa = 0.60000000000001) (Beta = 0.5)



Alfa - Beta - Accuracy Surface Plot



En yüksek accuracy değeri: 0.5 (Alfa = 1.1) (Beta = 1.1)

	W1 – W2 Line Search (Extrapolasyon)	W1 – W2 – Wi Search (Extrapolasyon) (wU)	W1 – W2 Line Search (wL)	W1 – W2 – Wi Search (wU)
Accuracy(f1)	%56	%55	%55	%57