אלגוריתמים בראייה ממוחשבת - 046746

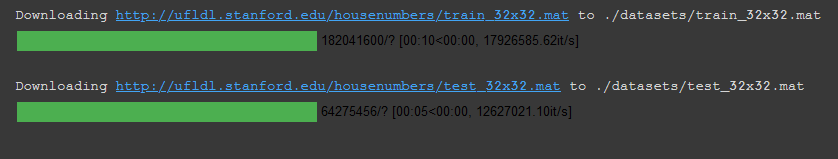
רטוב 2

דניאל טייטלמן – 207734088 – Daniel.tei@campus.technion.ac.il

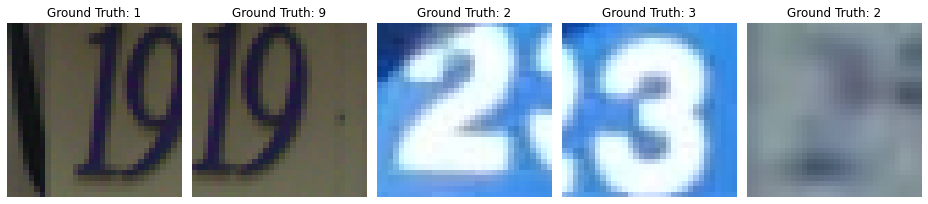
יאיר נחום – 034462796 – [nahum.yair@campus.technion.ac.il](mailto:nahum.yair@campus.technion.ac.il)

פרק 1:

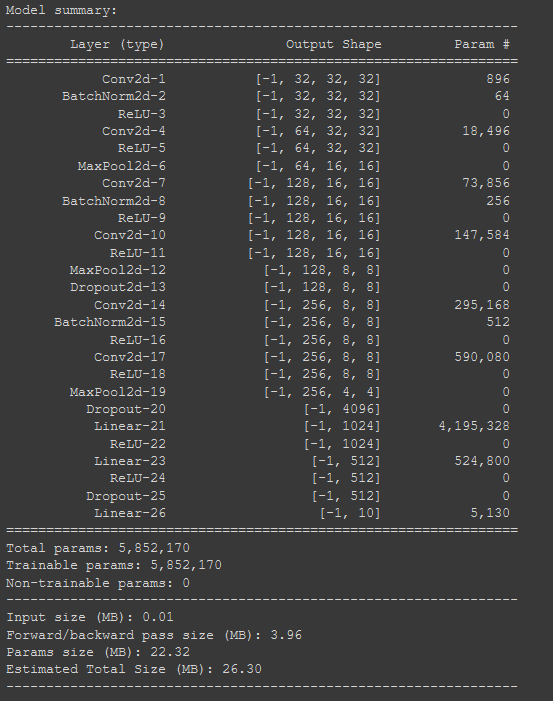
1. הורדנו את ה – Database הנקרא SVHN.



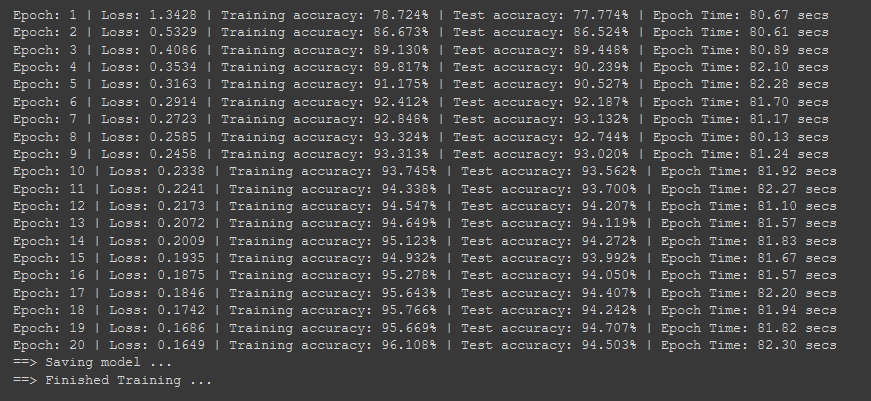
לאחר מכן נציג 5 תמונות הראשונות ב – Dataset של סט האימון ואת התיוג המתאים להן:

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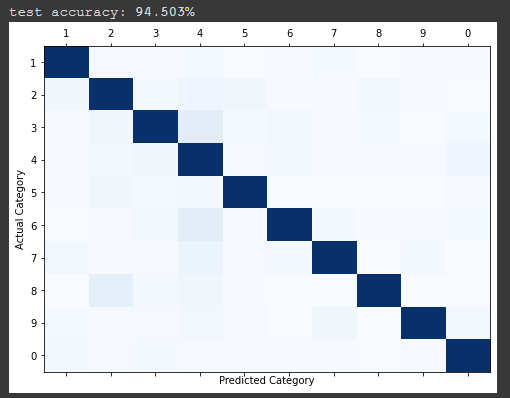
1. *כעת אנו נדרשים להשתמש בתהליך דומה לתרגולים 3 ו 4 לטובת אימון רשת ראשונית לסיווג הדאטא הנ"ל, על כן בשלב זה ביצענו תהליכים דומים לתרגול אותם נתאר כעת.*
2. *ראשית כל הגדרנו אוגמנטציות על סט האימון שהן: חיתוך אקראי לגודל 32 עם ריפוד של 4. הפיכה אקראית לאורך הציר האופקי ונרמול. בעבור סט המבחן השתמשנו אך ורק בנרמול כי כך נתבקשנו. (הערת צד ניתן לשפר רובסטיות מודלים באמצעות דבר שנקרא TEST TIME AUGMENTATION דבר זה מאפשר להשתמש באוגמנטציות על סט המבחן בפרדיקציה ואז לבחור את תוצאת ה – MAX CLASS בסיווג על פני האוגמנטציות וכך לשפר את הרובסטיות של המודל).*
3. *לאחר מכן הגדרנו Batch\_size=128, קצב לימוד של ומספר Epochs של 20 בדומה לתרגול, באמצעות ה – Batch\_size הגדרנו את ה – DATALODAER כאשר אנו מבצעים רנדומיזציה במיקום לסט האימון ולא מערבבים את סט המבחן.*
4. *הגדרת רשת CifarCNN בדומה לתרגול מצורפת תמונה של הגדרת הרשת. (התמונה יוצרה באמצעות Torchsummary שהותקנה בתחילת המחברת ופקודת summary).*



1. *לאחר מכן אימנו את המודל באמצעות הפונקציה שניתנה בתרגול לאימון המודל, בנוסף השתמשנו ב – OPTIMIZER ADAM ופונקציית המחיר שלנו הייתה CATEGORICAL CROSS ENTROPY. מצורפת תמונה של ה – LOSS במהלך האימון.*

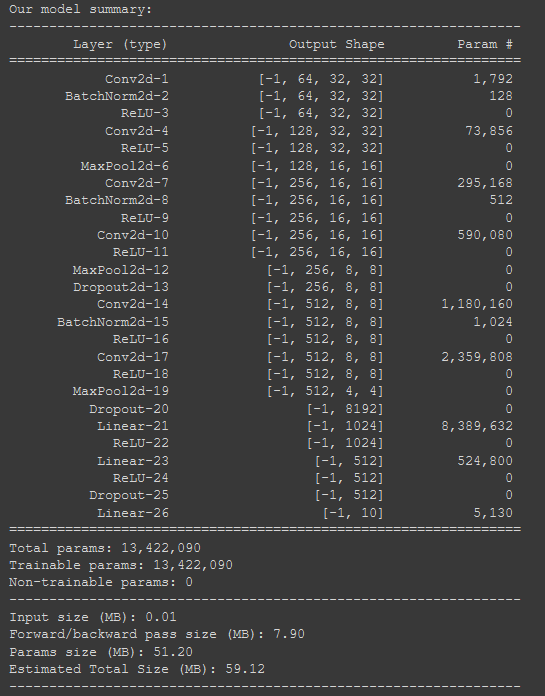


1. *לאחר מכן השתמשנו בקוד מן התרגול על מנת לחשב את ה – Confusion matrix ואת ה – Accuracy על סט המבחן.*



*כפי שניתן לראות אנו מצליחים ברוב התגיות אך ישנו בלבול משמעותי (יחסית) בין 8 ל – 2, בין 4 ו 6 ובין 4 ל – 0.*

1. *על בסיס הרשת מהסעיפים הקודמים בנינו רשת אחרת, בעלת ביצועים טובים יותר על סט המבחן. כאשר שאר ה – Hyper parameters והאוגמנטציות זהים לסעיפים הקודמים. מצורפת תמונה של מבנה הרשת ותוצאות האימון.*
2. *מבנה הרשת:*



*נתאר את השינויים שביצענו במבנה הרשת:*

*בעבור כל שכבת קונבולציה הכפלנו את גודלה פי 2 מהרשת המקורית, ושינינו את ה – BatchNorm גם כן כך שיבוצע על פי 2 רכיבים. לבסוף שינינו בשכבת ה – Fully connected את רכיב ה – LINEAR הראשון כך שבמקום כניסה של 4096 ישנה כניסה של 8192, בצורה זאת שכבה ה – Fully connected מקבלת כניסה בהתאם ליציאת שכבת ה – CONV. ה- ACTIVATIONS זהים לרשת הקודמת והם RELU. הפילטרים בשכבות הקונבולציה הם בעלי גרעין בגודל 3 ועם ריפוד של 1. בנוסף בשכבות MAXPOOLING2D ה – STRIDE הוא 2 וגודל הגרעין הוא 2. בנוסף ישנם DROPOUTS לשיפור יכולת ההכללה כאשר בשכבות הקונבולציה הם בהסתברות 0.05 ובשכבת FC הם בהסתברות 0.1.*

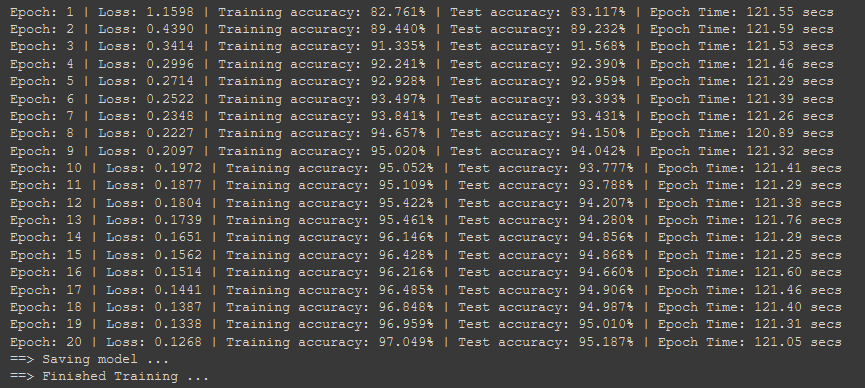
*מימד הכניסה הוא טנזור 4 ממדי כאשר המימד הראשון לא רלוונטי וקשור למספר הדוגמאות הנכנסות לרשת, המימד השני הוא מספר הערוצים (ערוצי צבע – 3 ערוצים) והמימד השלישי והרביעי הם גודל התמונה שזה 32 על 32.*

*יציאת הרשת היא וקטור באורך 10 של הסתברויות בעבור כל CLASS.*

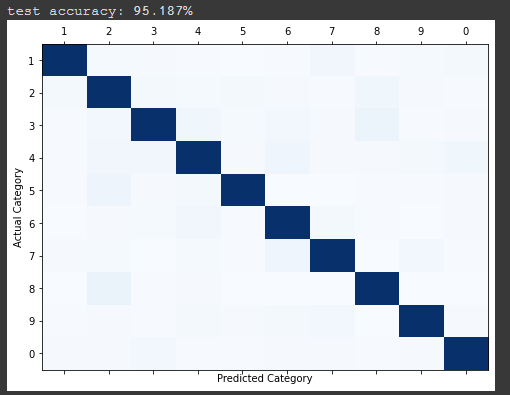
*מספר הפרמטרים הניתנים לאימון ברשת הם: .*

*לסיכום, הסיבה שבחרנו ברשת זאת כי הרשת הראשונית כבר הניבה תוצאה מצוינת והנחנו כי אם נשחק מעט עם ערכי הרשת נוכל להגיע לתוצאה טובה, ואכן התקבל כך.*

1. *מהלך תהליך האימון:*



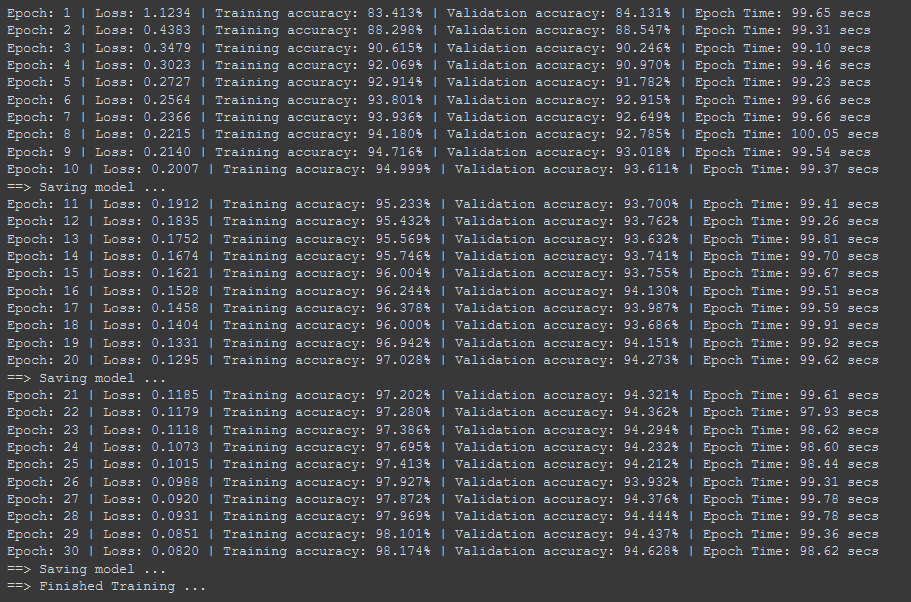
1. *תוצאת המודל על סט המבחן: כפי ניתן לראות התוצאה (Accuracy) השתפרה באזור ה - 0.6%.*



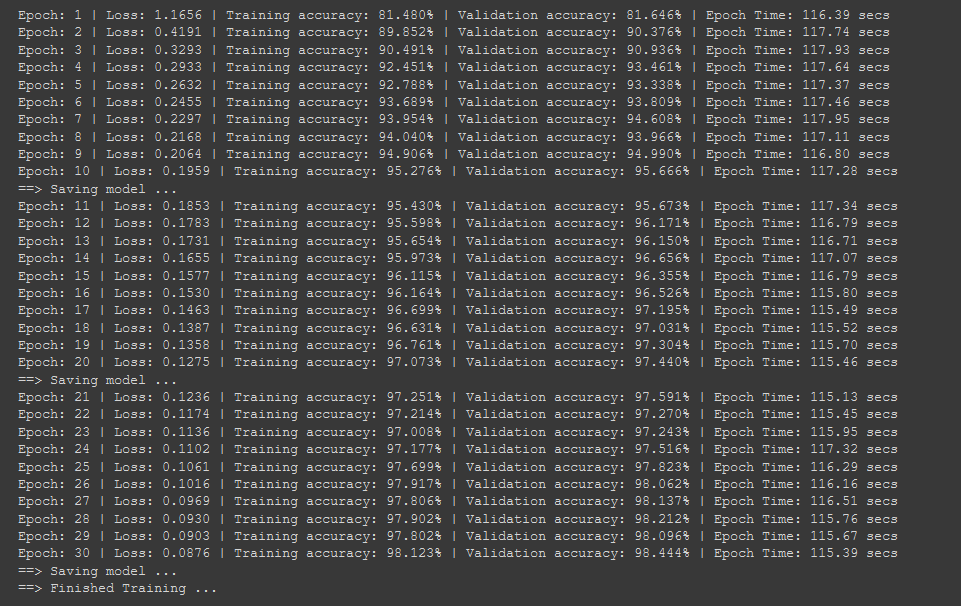
1. *השתמשנו ב – Validation set על מנת לבצע Tuning להיפר פרמטרים של המודל שלנו כך שפיצלנו את ה – TRAINING SET ל 80% סט אימון ו 20% סט ולידציה. על פי תוצאת ה – Accuracy על סט הוולידציה שינינו את ה – HYPER PARAMERTS על מנת לשפר את התוצאה שלנו. לאחר בחירת הפרמטרים הטובים ביותר אימנו מאפס שוב את הרשת עם כלל סט האימון (כלומר סט אימון וסט ולידציה).*

*הפרמטרים הטובים ביותר הם:*

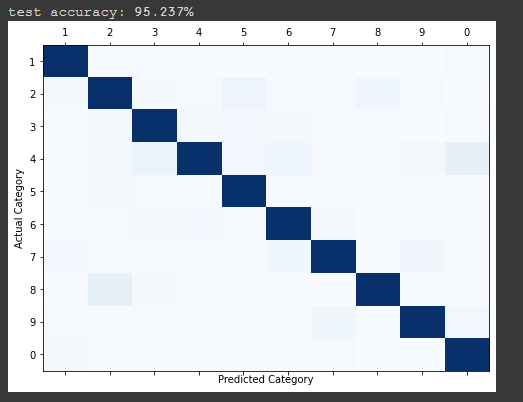
*תהליך האימון בעבור הפרמטרים הנ"ל כאשר אנו מודדים ביחס לסט הוולידציה.*



*לאחר מכן אימנו על פני כלל ה – DATASET (הדיוק על הוולידציה מוצג בתמונה אך לא רלוונטי מפני שכעת הינו חלק מסט האימון).*



*לבסוף התוצאה הסופית היא על סט המבחן:*



*התוצאה השתפרה בכ – 0.1%.*

פרק 2:

1. הורדנו את מודל ה vgg16 המאומן ונכנסנו למצב evaluation.

**VGG(**

**(features): Sequential(**

**(0): Conv2d(3, 64, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(1): ReLU(inplace)**

**(2): Conv2d(64, 64, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(3): ReLU(inplace)**

**(4): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)**

**(5): Conv2d(64, 128, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(6): ReLU(inplace)**

**(7): Conv2d(128, 128, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(8): ReLU(inplace)**

**(9): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)**

**(10): Conv2d(128, 256, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(11): ReLU(inplace)**

**(12): Conv2d(256, 256, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(13): ReLU(inplace)**

**(14): Conv2d(256, 256, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(15): ReLU(inplace)**

**(16): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)**

**(17): Conv2d(256, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(18): ReLU(inplace)**

**(19): Conv2d(512, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(20): ReLU(inplace)**

**(21): Conv2d(512, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(22): ReLU(inplace)**

**(23): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)**

**(24): Conv2d(512, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(25): ReLU(inplace)**

**(26): Conv2d(512, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(27): ReLU(inplace)**

**(28): Conv2d(512, 512, kernel\_size=(3, 3), stride=(1, 1), padding=(1, 1))**

**(29): ReLU(inplace)**

**(30): MaxPool2d(kernel\_size=2, stride=2, padding=0, dilation=1, ceil\_mode=False)**

**)**

**(avgpool): AdaptiveAvgPool2d(output\_size=(7, 7))**

**(classifier): Sequential(**

**(0): Linear(in\_features=25088, out\_features=4096, bias=True)**

**(1): ReLU(inplace)**

**(2): Dropout(p=0.5)**

**(3): Linear(in\_features=4096, out\_features=4096, bias=True)**

**(4): ReLU(inplace)**

**(5): Dropout(p=0.5)**

**(6): Linear(in\_features=4096, out\_features=1000, bias=True)**

**)**

1. קראנו את שתי התמונות של הציפורים בעזרת cv2 (אפשר היה גם  
    להשתמש ב PIL.Image): ![A picture containing bird, parrot, colorful, branch

   Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5haHVtLCBZYWlyIFkAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzA2AACSkgACAAAAAzA2AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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pOJIjHtVCMcg5/SqFKSaOpooopmIUUUUAFFFFAHi37RefsWgY/56T/AMkrwtMk4J5r6X+LvgjV/GdvpSaKsJNq8pk82TZ94LjH5GvNofgX4q3fvVswPa4/+tUO9ziq05Sm2kedWtq9zMqopPrXoOiSPY2ox0ArpNN+D2tWcXzpbb8dRL/9atCL4aa8kOwpbH/tr/8AWqJJ9DswtNQ+I4PV9Xa43BycCuTN3510wB4r0zV/hF4rumP2VLQA+s+P6Vk23wP8YRShnSy/8CP/AK1Z8sr3M6zk5WRxkowlZczYJr1V/gz4rZSNln/3/wD/AK1Z03wM8YuTsSx/8CP/AK1V7y6GfKzy2aQetV4pmMwHavTn+AfjVv8AlnYf+BP/ANamxfADxqkmWjsMf9fP/wBajmn2CVM5ewXcorYjh+UZFdbZfBbxXBjzEs/wuP8A61af/CpvEuOEtf8Av/8A/WrmqRnLZGXs5djhQdvSoJQmSwUbvUgZrvH+Efig/dS0/wC//wD9aoH+D/ixuiWf/gR/9auZUal9hcs+xwDklsnrRuwOa7hvg14uPRLP/wACP/rVC/wX8Znoll/4E/8A1qtUproL2cuxxTzqMAGui0SeNApLCrb/AAR8bHolj/4E/wD1qs2vwf8AHUH8Fj/4E/8A1q58RQrVIWijejFwldo17S5XI54qxqKpd6fIgYHIqtb/AA18cQ4zHZH/ALef/rVo2/gHxeFZJ4rTaR2uP/rV5cMvxCldxZ6sasTwXxXok+l3TTQPuDN0zVnwrql5bgs2VYH7p9K9L1j4KeL9QuhJGLMqD0a4/wDrU2L4L+MYuUgsM9CftHX9K97lrKPK1cmVXll7pS/4TyKO1WKZSrYwTWWfGiQMzQnj2710UvwW8XTj95BYn/t4/wDrVYtfgTq+wC6itlPfbPn+lXGNR/Ei4129zn7C/Gt2c8l1gqflAzWhoWvW1pqU9s5VFQAKCa34Pgvq1kjtbCHcMbFM2Af0rLk+CHiefUftMgtRk5IFx/8AWrSEJLWxcqy0Ohg1WOcfJjB71jX2pSwagAq5UnrXQ2Pw21+zVVC2+B/02/8ArVauPh5rM4yY7fd/11/+tWtpPoX7SHc503bHDtg98VsWd3BNbncFBxzT5vh34haMLGltx/02/wDrUyD4e+J41wVth9Jv/rVtG6M5Sg+p5l43t4bW8NxaxhGzztrnbO/E8gaKXZID0z1r1nXfhN4o1NSI1tDkfxT4/pXJL8BPHEchKR2AGev2r/61ctfDxxCtNa9/66GE1GL5qT+Xcg0/WWdhHO22RehNdTp+pQy4jn4bsfWqEHwW8abQLiOxyv3XFzz/ACrTtfhN4wCbLhbQEfddbjkfpXiRwmJwlS9NXXboaQqwqL3jYsooG1C3ZSP9Yv8AOvY68Ysfh34xt7q2kkNriOVWY+f1UEZ7elez19DQk5Ru1YyrOLa5QooorcwCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//2Q==)
2. על התמונות האלה, הפעלנו טרנספורמציות של resize לגודל שאותו מצפה המודל ונירמול (לפי הממוצע והשונות של סט האימון של המודל).
3. נראה שהמודל עשה קלסיפיקציה נכונה (לפי תמונות אחרות של סוגי הציפורים שראינו באינטרנט). המודל חזה class 94 על יונק הדבש, ו 90 על הסוג של התוכי. VGG16 אומן על ILSVRC שהוא הקטנה של ImageNet ל 1000 מחלקות (<https://neurohive.io/en/popular-networks/vgg16/>) .  
   לפי המיפוי שמצאנו באינטרנט מאינדקס לשם המלא של המחלקה (<https://gist.github.com/yrevar/942d3a0ac09ec9e5eb3a>), רואים את שמות הציפורים:  
   Text

   Description automatically generated
4. לקחנו תמונה רנדומלית של חתול מהאינטרנט, הפעלנו את אותן טרנספורמציות של עיבוד מקדים, והכנסנו למודל לקבל פרדיקציה. קיבלנו זיהוי נכון של המחלקה (אינדקס 282 ב 1000 המחלקות ב ILSVRC):  
     
     
   ![Text

   Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5haHVtLCBZYWlyIFkAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzIyAACSkgACAAAAAzIyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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U2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kajuJvs9tJN5ckuxS2yJdzN7AetSVV1PUbbSNLuNQvmKW9uhdyqljgdgBySegFDAoad4jS81RtOvdNvdKvBD9oSK88s+bGDtZlaN3XgkZBII3DjBqvY+MrS+vLOP7DfQWuoMyWN/KieTcsASAuGLrlVYjeq5A47ZitbXUJb2fxLrNuI5YrN47PTYzuaFDhm3sOGkYqgIHC4wC3JPM6fELDSPCGqJffb47m6iW30zjybcyqwYw4+fMYLffZwFDABeMNb29Pxbt/XcT0Tf9aL+v0OxuPFmmW/iW20L/SJL2eUxEpbt5cTeUZcNIQFztXO0EtyOMc1t1zXib/kZ/CP/YSl/wDSSetS1tdKj8QahcWjRHU5o4ReBZtzhF3eXuTPy9WwcDPPXFHQfUkfVYE1SawKyebDbC5YgDaVLMMDnr8ppdI1KHWdFstTtVdIbyBJ41kADBWUMAcEjOD60zVdMsb6xu1vLK3ufNgMbiWJX3qMkKcjkA849a4HSbHTo/h94R0e00bS3l1iGN3+1QjyDKtvuaSSNcec+AcKSMkZ3DANKOz+X43B7/15Hd67q/8AYmmpd+R5+65gg279uPMlWPOcHpuzjvitF22Rs2M7QTivIGlit/APiG1lv7ZbLT/EUEKy2UZght1EluziNdzFArFzgNwc4x0rq5NN03R/HWnReHreGze6sriS/itlCrNGNuyRwOrbzgMeTl+aJaRv/WyY1vr/AFrY6XQNV/tzw7Yap5PkfbLdJvK3btm4ZxnAz+VaFeSabYaOnwn0LWdPELa4Ps0VrfJzP53mBTDu+9t+8pTptzxWzrMlxo+r6zoNgzRyeI2ilsmBHySSHy7gjP8AdRRJ9SaqS95pC8z0KqMmrQRa/b6QySfaLi2kuVYAbAqMikE5znMgxx61LZiztkXTrN4l+yRIvkIwLRJjC5HUDCnH0rldT0TSrr4taVcXWmWc0rabcSebJbqzGRJYNjZI+8oJweoycUlZyS6a/kxa8t/63OzrN0zV/wC0dS1W08jy/wCzrlYN2/PmZiSTOMcffxjnpXnGovHJPpfiazh0jTJLvXoreIrAz31x/pHlyBp9wxlQ4Me1gFGM9MbNnpXh/V/FXjJPEENpeC3uYpGhugGWBDbJ+8APCk4I3DB+XrxSW1/X9P8AMrrb+up11xq/keJbLSfI3faraafzd+NvltGMYxznzOueMe9aVeXaakGq6h4Ih8RSm5W60y8Cpdkk3a5iKCQH75KAMQc5IzVmTSVax8UWvh1AtvpF5Dd6dbxcRxXUaCSSNB0VScAqOAXf1puyWvn+dhb7f1oekUVy3hi6TxFrd/4jiO+02JZ2DeqAB5GH1dtp/wCuVR6nZWetfEBdO1+GG6so9PE9nZ3Kh4pZd7CR9h4ZlXYOQcbzjrRZ3Sf9dRJppv8Art+Z1tUb7VoNPv8ATrSZJGk1GdoIigBCsI2kJbnphD0zziuR13T9M1LUk0O203Q1t9M08XH2jVLb7TFBEzMu2OIMoH+r5fcMAAYPbGs9P0/XtG+HlzrFpa6m0szwvNcwCQyRi3mKgl8kjKqcEnkA9eaI6/16/wCQ3p936XPSbLU4b+6v4IVkV7GcQSlgMFjGj5HPTDjrjnNXKrN9h01Wlb7PaCeVQznanmSHCKCe7HCqO/QVZpAFFFFABRRRQAVDd2ltf2slrfW8VzbyjbJDMgdHHoQeDU1QXt7babYzXt9MkFtAhkllc4CKOSTSdrajV76FCw8K+HtKu1utL0HTLK4UECa3s443APUblANT22g6RZalLqNnpVjb302fNuorZFlkycncwGTk8nNZPhz4ieFfFt69noGrx3VzGu8xNE8TEeoDqN3vjOKjuviX4PsvEX9h3Wu28eoCTy2jKsVV/wC6ZMbAe2CeDxVa3SJ0s2dJLbQTywyTQxySQMXid0BMbEFSVPY4JGR2JpEtLaK7luo7eJLiYKssyoA8gXO0Mepxk4z0ya5/xH8RPCvhK+Sy8QaslrcyJ5giEMkhC9MnYpx+Nb9le22o2UV5YTx3FtMoeOWNtyuD3Bpbq4+tiestvDGgPZSWb6HprWs0vnyQG0jKPJ/fK4wW9+tTazrNh4f0ibU9Xn+z2cGPMl2M+3JCjhQSeSO1Jd65ptjqVjp91eRx3moMVtoOS0mFLE4HQADqeOg6kUWDYfHo+mRW5gi060SFnSQxrAoUsgUK2MYyAi4PbaPQU3TtE0rR0lTSdMs7FZjmUWtukYc+p2gZ/GqWmeK7HVfFOraBbxXK3WkiMzvJHiNt4yNpzk/iB7Zrbo6eoeRnW3h3RLO+S9tNHsILtEEa3EVqiyKoG0KGAyBgYx6VV/sq7vfFcWp6ktukFhG6WMcTl2ZnxukfKjacDaFBI5Jz0xt0UdbgVLXTobS8vbqMu0t7Iskhc5xtQKAPQYXOPUn1pbzS7DUXgfULG2umt5BJC08KuYnH8S5HB9xVqigDNHhzRFvpbxdG08XUzh5JxapvdgwYEtjJIYA59QDReeHNE1GYTaho2n3UofzA89qjtvwBuyR1wqjP+yPStKsqHxPo1xZ6nd29/HNb6UzpeSRgsIii7mHA+bAPbPPHUYovb5Ba/wAyzf6Rpuqrt1PT7W9XYUxcQLINpIJHIPGVU49QPSobi0n07RRaeGLKxhZBshic+TDED3ART067cDPqOtWrC+t9T063v7GTzba5iWaJ9pG5GGQcHkcHvVihrowv1KGh6RDoWh2mmWzF0t4wpcgAu3VmIHckk/jUmpaTpus26wavp9rfwq29Y7qFZVDdM4YEZ5PNW6KHqC0M6fw7otyLMXOj2EwsQBaeZao32cDGAmR8vQdMdBT7jRdKu9NXT7rTLOeyUgrbSW6tGCORhSMVeooAqXumwXzWfnFglpOs6IuArMoIUEY6AnPGOVFW6KKACiiigAooooAKp6vd2Gn6PdXesNGtjBGZJzKu5Qo56d/pVyqOtaLYeIdHn0vWLf7RZ3AAli3sm7BDDlSCOQOhpO9tBq19TgPDNpqPjnx5aePb2wOlaXaWzw6ZFIf390jZ/ePjouGJA98jI5PnN59oufB/iDUreK1Pgl9e865tmmA1AtvUHadm1QSQdrfMBxnufZdE+Fng3w5rEGqaNo/2a9g3eXL9qmfblSp4ZyDwT2p1x8LvBd1r7azcaBbvfNL5rNvcIz+pj3bDnqcjk8mrVlJNbL/O/wA/wJd2nf8ArRoyvGXijzpP+EX8J6Wmpa5rNnmUOoWO2t2UjzJj7A8KfX3AZdO8Hnw3Y+D9KXxfJYHTpH32ocKNTY/MyAFgSAScD5uD0zzWnrnwu8HeJNYl1TWtH+03kwUPL9qmTO0BRwrgdAO1W7bwD4ZtINJig0tVTRpHlsAZZG8lmO5jktlueec0lZa+f+YNaW8v6/rsams6NYeINIm0zV4PtFnPjzIt7JuwQw5UgjkDvXlHxD8Oi++NfhSP+19Vs1v45lD211sNvsT/AJZHHylv4uuc17LWH4l8GaB4wigj8R6ct4Ldi0R8x0ZCevKEHB446cChaST7DesWjzHVfFut6D4g+JU1pfXM/wDZtvaCzjmkMiQFwql1Q5APO48YOOaqyJqug6l8PZYfGms6imtXMct1BcXu9XyEJ2452fMRtJIr1C98K6bZQ67qOlaNFealqVtsmhmlJS72phEIY7QD0zx715x4c+Gd7P4w0m+Pg+18I6dpc/2l1/tH7bPdyfwgPk4UbRwcdSec8Ono4p9Lfhe/9bkzT5Xbrf8AJW/rzMfUNX+IHinxR4hudBOpq2kXzQQLbavDa29ssbHHmwOP3ucEkkgHkdBiul1Ndc8Q/GKy0O417VdGgm0BLi6g0+62Yk3HIU8qDnHzAZIGM4NdprHwz8H6/rX9ratokM96dpaQSOgcjoWVWCsfcg5HBrX/AOEc0r/hJh4g+y/8TRbf7KJ/MbiLOdu3O3r3xmlF2SX9bf5jldttf1qjM+IGtXvhn4d6rqelDfd2sA8pmG7aSwXeR3xndzxxzXKabaw+G/AM/ijXPGev6il7pReYC8DbGk2/Nbr0RgWCg5IBI6V6bcW8N1byW91Ek0MqlJI5FDK6nggg8Ee1ctp/wu8G6Wl+ljoccaahCYLlWmkcOhOcAMx28gEEYIwMVOuvn/X4laaeX/A/I818G6l4hg+JVrod5d+IINM1rTpJIl1XVEurgJtYpMu0DyWwPu9Qc5JwMaHwb8LwXCeKhe6hqVzD9vudPms5bk+VKpABkdQAfMIyN2RXf6L8NvCXh7Uba/0bRo7W6tVdYpVmkJw2c5yx3dT1zjtVvT/BXh7SvE114g0/TVg1O7DCadZHw+4gn5M7RkgHIH86u6v8mvx/pEa/in+Bq2Fjb6Zp1vYWMflW1rEsMSbi21FGAMnk8DvViufuvCwvPH1j4lnu8rY2clvBaiPo7n5pN2fTjGPfNdBSvfV7lbaBRRRSAKKKKACiiigAooooAKKKKACmySJFG0krqiICzMxwFA6kmnVHOsL27rcqjQ7TvEgBXHvntQBV0zW9K1pJH0bU7P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5. הפעלנו טרנספורמציות שונות:
   1. טרנספורמציה פרספקטיבית – בוצעה ע"י ספריית cv2. כמו שלמדנו בהרצאה, ע"י הגדרת מיפוי של 4 נקודות מתקבלת טרנספורציה פרספקטיבית. התמונה המקורית בגודל 494x518:

(150,150)->(0,0), (494-10,10)=(484,10)->(494,0), (10,518-10)=(10,508)->(0,518), (494-150,518-150)=(344,368)->(494,518)

* 1. הגברת בהירות – המרנו את מרחב הצבע מ BGR ל HSV (קראנו ע"י cv2). והוספנו לערך V 90 (עד כדי רוויה בערך 255) והחזרנו חזרה ל BGR.
  2. החלקה ע"י פילטר גאוסי – השתמשנו בפונקציית GaussianBlur (מספריית cv2) עם פילטר בגודל 11x11 וסטיית תקן 10.

![A collage of a cat

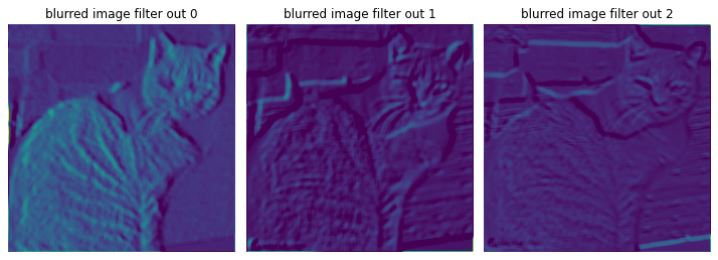
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1. לאחר resize לגודל שהמודל מצפה לו, המודל עדיין חזה נכון את המחלקה כמו קודם ולא נכשל למרות הטרנספורמציות החזקות על התמונות.
2. הוצאנו מהמודל את הפילטרים עצמם (הראנו תמונת RGB כמו בתרגול שכן הפילטרים הם במימד עומק כמו התמונה, 3):

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 
הצגנו גם את התגובות של הפילטרים לתמונה המקורית שהורדנו מהאינטרנט ולכל התמונות של הטרנספורמציות:

![Background pattern

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 


בניסיון להסביר את של כל פילטר, ניתן לראות שמדובר על עיבוד ראשוני של התמונות בזהוי שפות בתדרים שונים.

פילטר 0 נראה שמזהה תדרים גבוהים כמו בפרווה של החתול וכך פילטרים מאוחרים יותר יכולים להסיק שאולי מדובר בפרווה (ולכן בסוף זה מוסיף לסיכוי שזהו חתול).

פילטר 1 נראה שמגיב חזק לשפם, יכול להיות שזהו פילטר שפה בכיוון מסוים בתדר מסוים שמתאים לכך. נראה גם שהוא מזהה שפות בכיוון Y. כאשר המעבר הוא מרמה נמוכה לגבוהה (צל לאור).

פילטר 2 נראה שמגיב חזק לשינויי שפה בציר Y גם כן, אולם בניגוד לפילטר הקודם התגובה חזקה כאשר עוברים מרמה גבוהה לנמוכה (אור לצל).

1. בחרנו בשכבת ה FC הלפני אחרונה בגודל 4096 נוירונים, ממש לפני השכבה הליניארית שממפה אותם ל 1000 מחלקות. העברנו את התמונות של הכלבים והחתולים עד לשכבה הזו (כולל) ושמרנו את הייצוג של התמונות לקובץ (כל תמונה בוקטור של 4096).

ביצענו FWD של התמונות דרך המודל עד לשכבות הקלסיפיקציה (שכבות ה FC ושכבת ה loss) .

תמונות של חתולים יגיעו לייצוג דומה כמו חתולים אחרים שכן נוירונים בשכבות אחרונות כבר אוספים מידע ברמה גבוהה המצביע על סיכוי גבוה לכל מחלקה. ולכן ניתן יהיה להפריד בקלות לאשכולות ומחלקות שונות בהסתמך על ייצוג שכזה.

![Graphical user interface, text, application

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5haHVtLCBZYWlyIFkAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzU5AACSkgACAAAAAzU5AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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KF1O0KDtYA7RkHnPR0UP3r36gtNjNttCtrXUoL6N5TLBZCyUMRtKAg5PHXj6e1VJPC4GoT3FjrGpafDdSebcWls8flyP8AxNlkZ0LAc7GX14JJrdop31v/AF3/ADFZbf12MO/8M/2neO95q+ovZPKkradmIQkrggZ8vzAMqDgPgn2JFWNR8L6Bq919p1bQ9Nvp9oXzbm0jkbA6DLAnFalFIZWsNOstKtFtdLs7eyt1JKw28SxoCeThVAFVI/D1il1q80gecaxt+1RSkFCBGI8AY6FRznNalFG4LTYw9L8LQ6bcwSy6hfagLRDHZx3jowtVIwdpVQWOMDc5ZsZ55OXQ+GwNSiu9Q1XUNSFu5e2gumjEcLHjcAiKWIBIBctjr15raop3d7itpYwr/wAKQXl1dSw6hfWMV8R9ut7V0VLr5QvzEqWUlQFJRlOAOcgGrdjps1pq9xN5u2y+zw29raox2RKm4k7egJ3AcdlFaVFIZl6roUep3UF5DeXWnXturJHdWhTdsbG5CrqyMCQDypwRkYqs/hKxl0S40+Wa5eS5mW4lvi489p1KlZc42hgVXAC7QABjHFbtFGwGLpvhmKw1eXVJ9QvdQvZrcW0kt0yfMgYsPlRFUfeI4Az3yeagtdK1Tw3psNj4fEep26EhI9TvPI+zIMbUQxwMWHX73Pua6GigDHFhd6xDavr9vDZz2d2txElldmZW2qQNzNGh/iPAHYc1HdeGBLqVzeafq+o6Wbwg3UdmYtkzAbdx3oxVtoAypUkAdwDW5RQBh6h4XivtUe+h1G/sXmgW2uVtXQC4jUsQrFlZlI3N8yFW+br0xFH4NtLbSNHsbC+vbQ6MNtrcxmNpNu0oVbehUgg8/L2GMV0NFAHOaj4MttRn1EjUtQtbbVE23tpbvGscx2bN2ShdTtCg7WAO0ZB5zoQ6Daw6nY3ySTGWxs3s4wSNpRihJPHX92voOTxWnRQtNv6/q4bmFceFw+pXN3YaxqWmi8Ia5gtGj8uVgNu750ZkYqACUK9AevNLqnhn+15pRd6vqP2Ccr52nq0XkyAY43FPMAOBkBx39TW5RQG5l6h4X0DV7r7Tquh6bfT7Qvm3NpHI2B0GWBOKt2GnWWlWi2ul2dvZW6klYbeJY0BPJwqgCrNFAGWvh+yF9q1xKGmGrIkdzFIQUKqhTAGO4Jzkmq+l+FodNuYJZdQvtQFohjs47x0YWqkYO0qoLHGBucs2M88nO5RRsBiDw0JdTS61DVdQv4oZTNBZ3DRiGJ85B+RFZtvbezY69QCEv/C8N5eXE8GoX1gt4AL2G0dAtzgbfmLKWU7Rt3IVOMc8Ajcoo8g63MzT9LlstVnlWXZYrbw21paI52RKm7J29ATuA+iiq+r+GIdW1i01Vb+9sb2zhkhgltXQbQ5UsSrqyt93GGBHOcZAI26KNb3DyMFfCFgNLks3muZXnvI724undTLPKjqwLHGAPkUYUAADAAqvq3ga01ZtTR9S1G2tNWH+mWlvJGqStsCb8lC4OFXgMFO0ZBBIPTUUf1/X3IFoYGoeFF1JGtrjV9SGnSRrHNp6mLypVAAIJMe8Agc7WHfpk1c1Hw1oWsTpNq+i6ffyomxZLq1SVlXrgFgTjk8e9adFAbFTTtK0/R7U22k2FtYwFi5itoVjUsepwoAzxWcPCdiNGj00S3Hkx3/9oBty7vM+0efjpjbu4xjOO+ea3KKd3e4dLGTq+gLql5a3sN/d6be2quiXNp5ZYo+NyESIykEqp6ZBUYPWq0fg3TotBudKE12Y7i5a788zfvo5i2/er44IbkZz6HI4rfopbAYUthqul6VeNZ319rV/Mqxwm8eFFi7BsIiLgbix4LEDAzwK0tK06LSNHs9OgJMdrAkKk9SFAGf0q3RTAKKKKQBRRRQA2RxHGzt0UEmvLPBPiC103wFqnxA1kebfazdyOqKMySBWMcNunc/d4HuT2r1RlDoVYZVhgivMPCngazu/Dd54J8Y6TPcWukag8tlKfNjinifLIyyLtBI3sCoPHpQt36frr89vxHpZev6O39ehm/DTTb9/iN4zt/FYiubu9tbaS8i25RfMUsYsHOQobb+FaXhHUPEOneDPEWieHoIdT1Pw/qD2dhHdSYV4cgqCSRnapI5I6AZq9oPwq8P+C/FV94lsIpDFHCPstnEksjW+EIfB3sZC3PBHHaofDPhTWdR8Ea5NPd3Xh3VvEV894JEXE1ohYbFIBBB2ryMg/N2NPpZdv10/C4ut33/TX8bHfQtcPpMb30aRXLQAzIhyqvt+YA9xnNfKWkWOmXvhnT7XTtIv7XxVd6lss9bkmMFsMPnCuXwWAxwFznGMnAP1fbWzwabDazXD3EiQiNp3HzSEDBY+561wUPwjtR8MX8I3WpGZxcNcwX62+1oZC2QQu45xyOvIJ6UbTcvT8wWsEv62Mfxx8W7zwt4gHh6wn0uK5s7VHurvVY53WWQqCERYQSDgg5PHOOMc09d8TJ4wf4Y62kPkG51U74t27YysqkZ+orqLr4caz/a1vrekeL307WzZraX92unpIl4Fxtcxs2FbAGTk9OMVY8UfD/UfENl4f8rxK9rqOiyecL6SzWUzSYHzbNwUcjOOR2pppNN73X5ktXVl2/T/ADM34wg/avBZxx/wkEHNSeO/+SufD7/rtdf+ixV2/wDh7qPiDwrLpfivxRLqV6lytzY6jDZpbPaOowuFQ4bnPcHnqDgh+ieANQh8VW/iDxZ4mm8QXtlEYrIfZEto4N2dzbVJ3MQcZ4988YI2TXk7/ghvZ+at+L/zM3SmHiD4heL9Xv40nj0SL+zbGKQZVMoWlOPVjgZ644rmfDXjjUdE8A+C4vDei6XF/bF/NbNalpQi/vMZDs7MCc5JO72Haux0vSLzRviN4js2t5zpviKIXUF3HEzxwzBSsiORwpOdwzjOMZzVfT/hL9g0rwrZf215n/CPXr3e/wCyY+0bn3bcb/l9M8/SlDZX/u/m+b8b/oEutt9fy0/Qq2HxF8RxWnjS016y0xdW8N23nxtaCQwSZQsAQzbj0Hcde2Kq2/xJ8YWdr4Z1nxBpekR6LrcsVuRbPJ58bOOHOflCn7wXk44JzV/xZ4O/sfTfiD4j+3ed/bGmkfZ/J2+TsiI+9uO7P0FZngf4f3WueHvCeo614iuLzSbGGK7tdKa3RRHLgEZkHLKDnAI4HGeuSOtr+V/xuKV7u3nb8LEnh26lsfiR8Tbm2ms4JolgaOW+cpAjeW2DIw5C5603wf8AGC71HxXdaPrsuj3sUVpJcLd6Ms4RTGCWU+aPm4GQV49znjc1H4VRanN4ua41Z1TxIISFSDBtmj5Bzu+cEgZGBx+dR6R8LLm18T2Os634jbVza6e9g1u1gkKNGQwCqEOFADYxgk889gL4UvK3zt/mVLdtd/w0/S4/wd4q8Y+Kmt9dksNHsvC9w0hVC8j3gRQQGyDs+8PTOO3euMg/aAnn1yGVY9LGlS3Yh+xMs/21YyceYX2+V/tbc5xx713fhb4f6r4VvIba18W3Fx4dgZzHpU1mhOGB4M2ckAnOMAe1Q6H8ONV8NX6waJ4wubbw8t19oGlGzjZsZDFBMTuCkjsOhPck01y8y7f1v/wCXflff+tjV8QeIPFunaqYNB8Ff2zaBARdf2tFb5J6jYwzx60s2hw+PfC8EPj3w79jdZjJ9h+3GTYRkK3mRFc5BPHvSeIPhn4S8U6q2pa7pP2q7ZAhk+0ypwOgwrAfpWxoPh/TPDOkR6Zodt9ls42Zlj8xnwScnliT196jpqVrfQ8Q+H+iaRofw/1zxrbabHJrWjXN19kllllKqFUAKVDAEYY+/PWun1D4ieM9L+GQ8W31jokYuvsxs4Y/Nc4fO8yfMMZ4KgE4Bwcmug0v4bf2b8Pta8Mf2r5n9qSzSfafs2PK8wAY27ucY9RmrOq/DyDV/hfb+D7i/Zfs8EUcd4kQyHjxhtmehxyM9D1qr6L/ALd/+2BJX+//AIBHqPjS9sPipp3hwxW/9n3GmPezSlGMqsu/gHOMfKO1cFZfH64uvEFqxj0oaXc3i24s8Ti8ijJ2iVnK+UR3wDnnHqa7PSfhrf23jOx8R674ol1m4t7N7SRJbNI1dTuA27T8oAbkEMScnPOAvh/4dat4Yvo7fSPGFzF4ejuTOulNZxs2CdxTzs7gufQdMjuTTVlJX/rX/KxLvZ2/rRfqR6Of+Ed+Nmp6LaYSw1mwGqCBRhY5w2xyB/tAZPvXoVcNo9heav8AFvVfEdzZ3FrZWFmul2ZuIjGZzu3ySKGAO0E4B6HtXc0vsr+uun4WKfxO39aK/wCIUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA/9k=)

1. ה LinearSVC מודל שאימנו רק על 20 התמונות הצליח לסווג את תמונות ה testing שהורדנו מהאינטרנט בצורה מושלמת.

