

Proofpoint Logo Detection & Classification

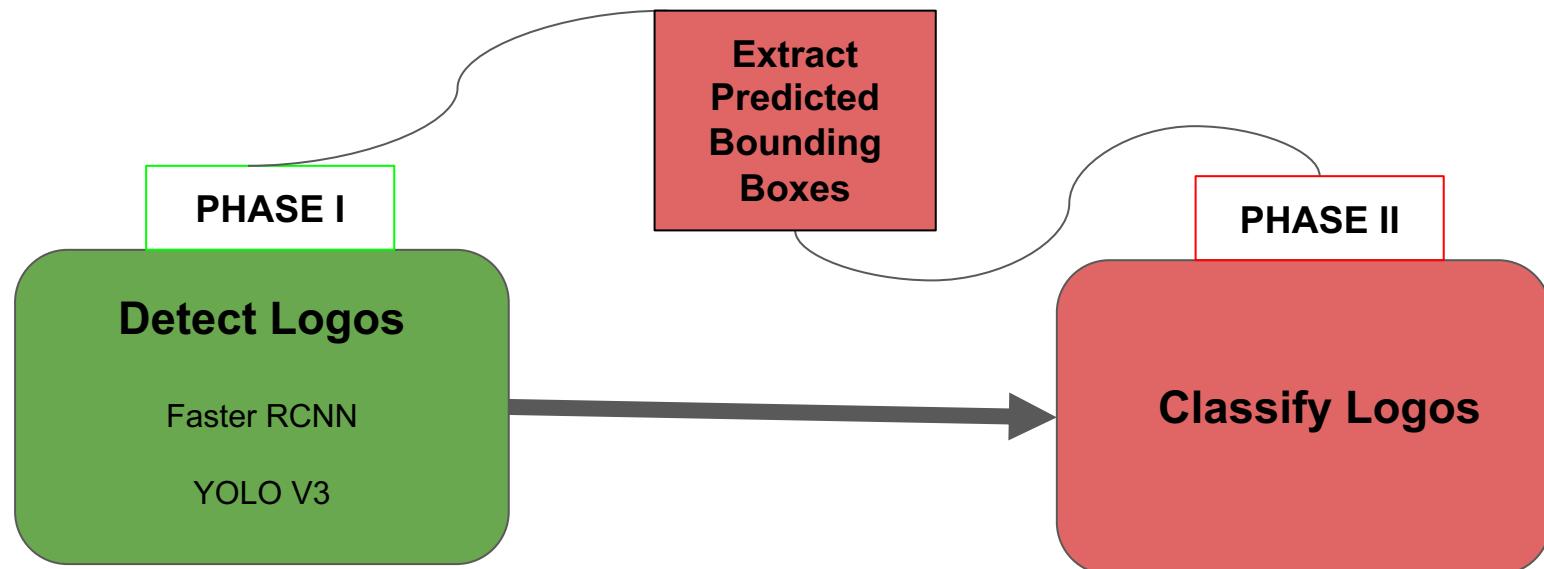
28th January 2021

Duke

Logistics

- Thursday 1pm biweekly meeting.
- Weekly update emails from us.
- Timeline of the project.
 - Finish project phases by 31st March
 - Handover to Proofpoint by 26th April

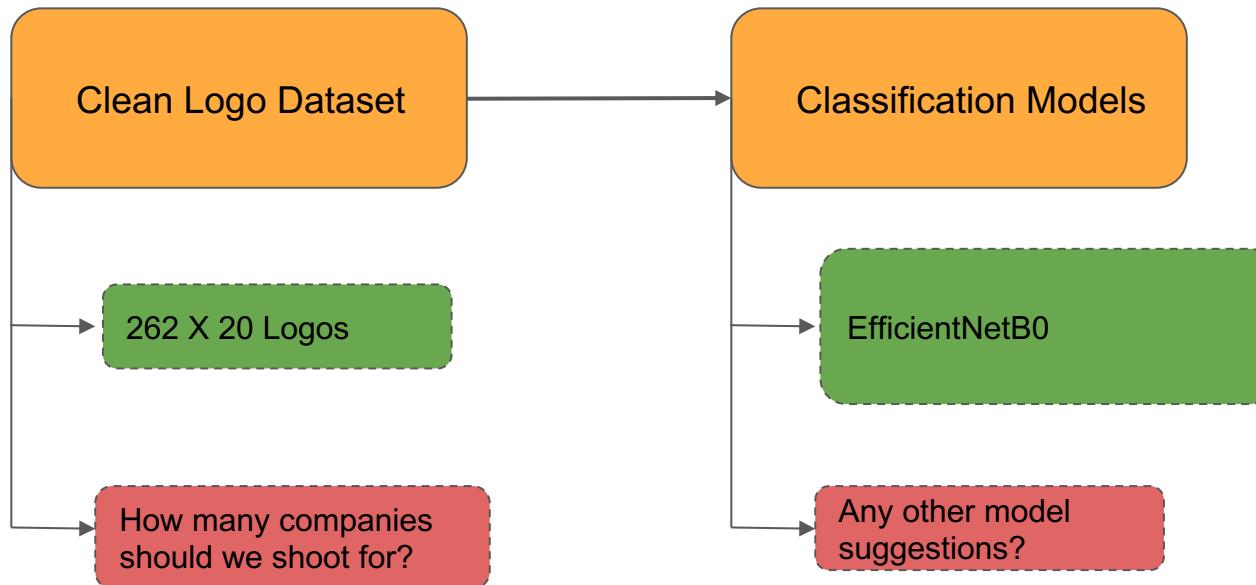
Way Forward...



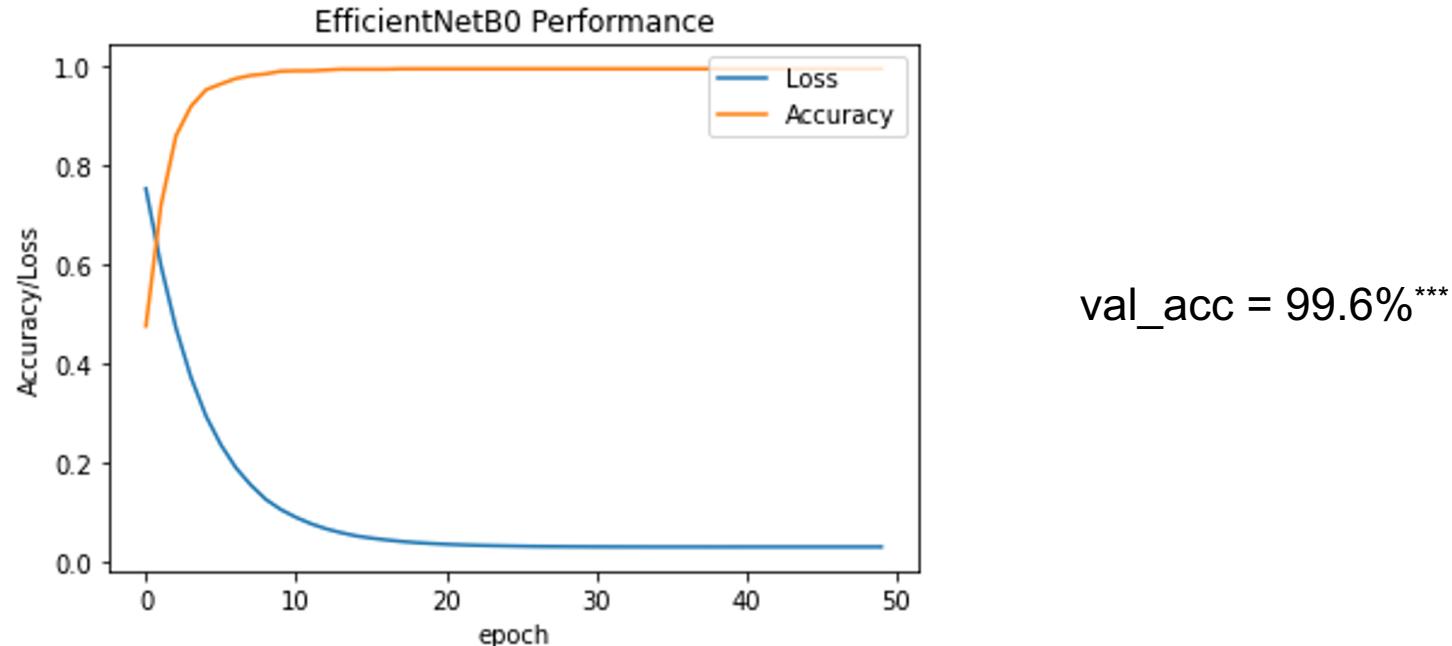
ImageNet Performance

Model	Year	Number of Parameters	Top-1 Accuracy
VGG-16	2014	138 Million	74.5%
ResNet-50	2015	25 Million	77.15%
Inception V3	2015	24 Million	78.8%
EfficientNetB0	2019	5.3 Million	76.3%
EfficientNetB7	2019	66 Million	84.4%

Phase II Breakdown



EfficientNetB0 Performance



RGBA Vs RGB



RGBA



RGB

Continuing Phase 1 Work

- Additional Scraping
- More Annotating
- PDF documents
- Emails
- Social Media

U.S. Department of Education Evidence Form: OMB No. 1894-0001 -- March 7, 2018 (PDF) 1 / 4

U.S. Department of Education
Evidence Form

OMB No. 1894-0001
Exp. 05/31/2022

1. Level of Evidence
Select the level of evidence of effectiveness for which you are applying. See the Notice Inviting Applications for the relevant definitions and requirements.

Demonstrates a Rationale Promising Evidence Moderate Evidence Strong Evidence

2. Citation and Relevance
Fill in the chart below with the appropriate information about the studies that support your application.

A. Research/Citation	B. Relevant Outcome(s)/Relevant Finding(s)	C. Project Component(s)/Overlap of Populations and/or Settings

PDF Document Scraping

- Scraped 704 of approx. 2,000 total.
- Uniform document sizes.
- 1440x2560 resolution.
- Are there particular groups we should target?
- Issues:
 - Blank documents
 - Slow scraping time (headless = False)
 - Logos not present
 - Logos further down in document





UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS
ALASKA REGION
P.O. Box 25520
Juneau, Alaska 99802-5520

OMB Control #:1076-0047
Expires: 02/28/2022



Special Use Reindeer Report

Date: _____ Permit Number: _____

Permittee: _____

Mailing address: _____

Number of reindeer in possession: _____

Number of reindeer died this year: _____

Cause(s) of death: _____

Notes:



Instructions for accessing the Denali Commission's Online Project Database and Reporting Wizard

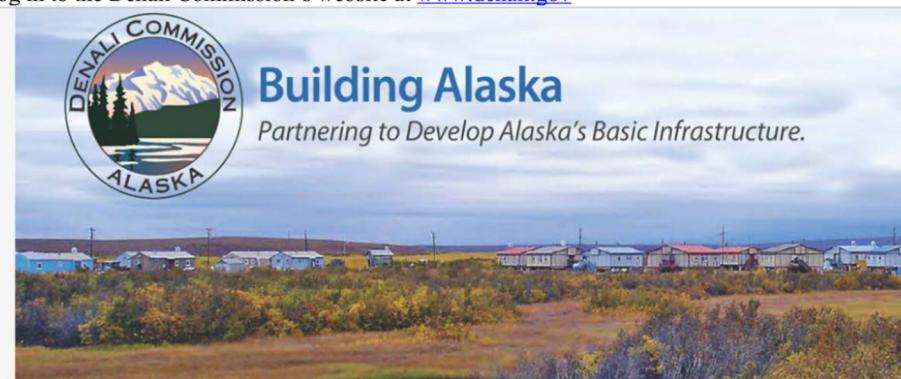
The Denali Commission's Project Database is an integrated, online management reporting and tracking tool for funded projects. Available to the general public, the database is used to manage the status of projects, timely reporting from the recipient, and detailed information about all awards funded by the Commission.

All award recipients must adhere to the Commission's terms and conditions outlined in their award agreement for reporting.

The Commission has created the following step by step instructions for grantees:

Step 1

Log in to the Denali Commission's website at www.denali.gov



Denali Commission Story

Introduced by Congress in 1998, the Denali Commission is an independent federal agency designed to provide critical utilities, infrastructure, and economic support throughout Alaska. With the creation of the Denali Commission, Congress acknowledged the need for increased inter-agency cooperation and focus on Alaska's remote communities. The Denali Commission Strategic Plan FY2018-2022 outlines the Commissioners' vision for agency investments over the next five years.



Goals for the Semester

- Logo classification models
 - Compare different backbones
 - Performance vs. time
 - Open set learning
- Scraping /annotating
 - PDFs, emails, social media
- Optimize Faster R-CNN and overall pipeline
 - Extract output (bounding boxes) as input for logo classifier
- Create final API/Github Repo
 - What should this look like?

Appendix

1. PDF no logo
2. PDF form starts on 2nd page
3. PDF form not loaded

HQ F 3780.2
(02-93)
All Other Editions Are Obsolete

U.S. Department of Energy
Subsidy for Energy Employees' Transit Application

Name: _____
(Last) (First) (MI) _____ (Social Security No.)

Home Address: _____
(Number/Street)

_____ (City) (State) (Zip Code)

Work Address: _____
(Program Office) (Routing Symbol) (Phone Number)

Building (FOR, GTN, etc.): _____

Certification: I hereby certify that I am employed by U.S. Department of Energy (DOE) and am not a member of a commuter vanpool or carpool and not listed on a worksite parking permit with any Federal agency. I certify that I am eligible for a public transportation fare benefit, am obtaining it for my personal, commuting use to and/or from work, and will not transfer it to anyone else. I further certify that the monthly transit benefit I am receiving does not exceed my average monthly commuting cost, based on a 20-day month commuting by public transportation.

This certification concerns a matter within the jurisdiction of an agency of the United States and making a false, fictitious, or fraudulent certification may render the maker subject to a criminal prosecution under Title 18, United States Code, Section 1001 and/or agency disciplinary action up to and including dismissal.

_____ (Applicant's Signature) _____ (Date)



[Continue filling out the form](#)

U.S. Department of State

OVERSEAS MOTOR VEHICLE MISHAP REPORT

If a motor vehicle mishap results in injury or death to any employee, including tenant agency employees, family member, contractor, or local national, a DS-1663, Report of Mishap, is also required for each individual injured or killed in the mishap. A DS-1663 is not required for minor/first aid injuries. Submit the DS-1663 concurrently with the Motor Vehicle Mishap Report.

Mishap Information Blocks:

Police Report - If received, please include a copy.

Post - Provide post name for overseas mishaps.

Mishap Date - Provide all dates in mm-dd-yyyy format.

Mishap Time - Provide all times in hh:mm. Check a.m. or p.m.

Official Vehicle Driver Information Blocks:

Agency/Organization - Driver's agency/organization for reporting damaged property

Last Medical Screening - If the driver's only medical screening exam was at the time of hiring, please enter the date hired for the "Last Medical Screening" field.

Last Safe Driver Training - If the official vehicle driver has not attended a SHEM or Post safe driver training session, enter "None" under the "Last Safe Driver Training" field. Do not include DS-related training in this field.

Last Operator Evaluation - Enter the date of the most recent operator evaluation.

Estimated Vehicle Speed (KPH) - At the time of impact.

Same Day - Identify whether the driver's shift started on the same date as the mishap occurred.

Was this Collision Preventable? - Determine if the official vehicle driver did everything reasonably possible to prevent the collision. Follow the National Safety Council's Guide to Determine Motor Vehicle Collision Preventability.

Official Vehicle Data Blocks:

"Other" vehicle includes rental vehicles, taxis, or any other non-government-owned vehicle used in the conduct of official government business.

Reporting Instructions:

Submit completed DS-1664 (and DS-1663, if applicable) to the Post Occupational Safety and Health Officer (POSHO).

****Be sure to retain an original copy for your files. ****

PRIVACY ACT STATEMENT

AUTHORITY: The occupational Safety and Health Act of 1970 (29 U.S.C. 657, 673); Secretary of Labor's Order No.12-71 (36 FR 8754), 8-76 (441 FR 25059), or 9-83 (48 FR 35736) and Code of Federal Regulations, Occupational Safety and Health Administration, Labor (29 1904, 1-22). The DS-1664, Overseas Motor Vehicle Mishap Report (15 FAM 963) is required whenever a motor vehicle mishap occurs that results in personal injury (excluding a minor/first aid injury), or vehicle or property damage is excess of \$1,000.

PURPOSE: The principle purpose of the Overseas Motor Vehicle Mishap Report is to inform the safety and health official of fatalities, serious injuries or property damage associated with official vehicle operations. Sufficient details must be provided to help prevent future occurrences. It is also used to insure that supervisors are aware of their safety/health responsibilities.

ROUTINES USES: These reports are used to provide statistical information to the Department of Labor in the Department's Safety and Occupational Health Annual Report. This report is designed to document and measure the progress of the safety program. Mishap reports are reviewed during program assessments and focus training/assistance efforts on the information contained therein. Sufficient detail is also required to adequately evaluate events to prevent recurrence.



