

Intro to AI platform - L00 Syll x Jetson Community Projects | N +

developer.nvidia.com/embedded/community/jetson-projects

Sci-Hub 백남학술정보관-IEEE Google Scholar ChatGPT 네이버 사전 AIHA 2023-2 HYU ASP-DAC 2024 Co... Grammarly

Jungwook Choi

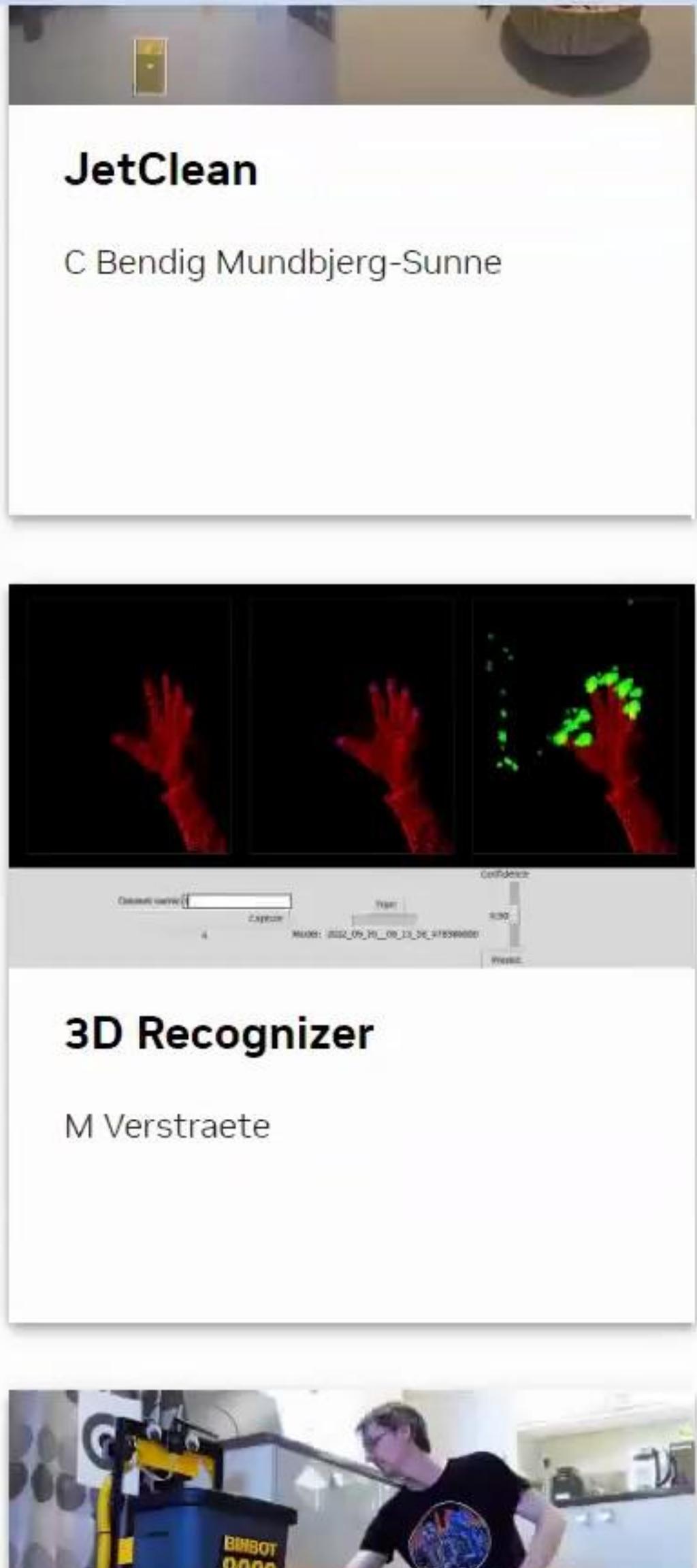
NVIDIA Frameworks

- CUDA
- DeepStream SDK
- Isaac ROS
- NVIDIA TAO Toolkit
- NVIDIA TLT
- TensorFlow
- TensorRT

Public Frameworks

- Caffe
- Darknet
- dlib
- Keras
- ncnn

JetClean
C Bendig Mundbjerg-Sunne



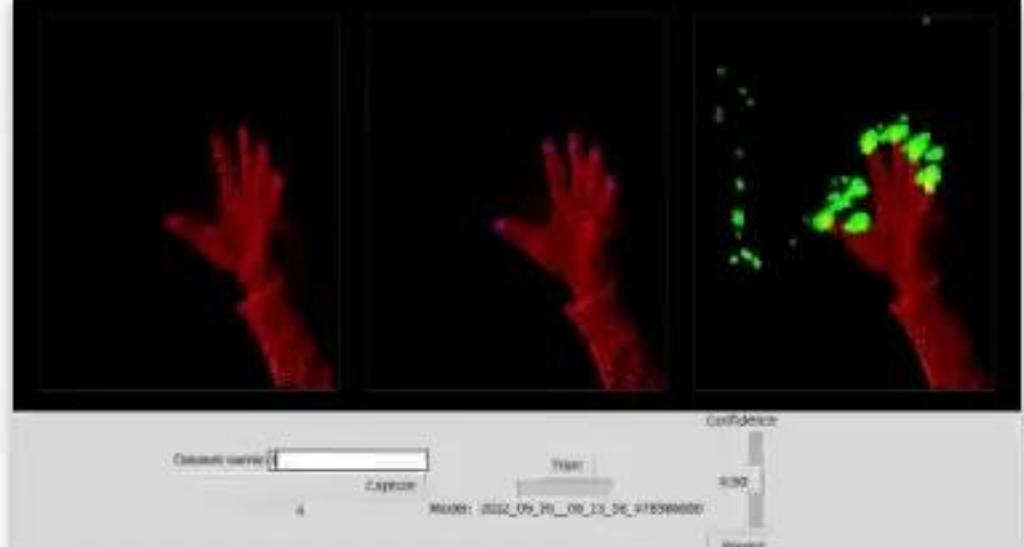
YOLO-ReT: Towards High Accuracy Real-time Object Detection on Edge GPUs
P Ganesh



NYC Land Cover Pseudo-segmentation and Analysis
N Kasmanoff



3D Recognizer
M Verstraete



Autonomous Off-Road Laz Boy Robot
D Niewinski



ROBOT ARM that Launches Fireworks! - Canada Day Special
D Niewinski



https://developer.nvidia.com/embedded/community/jetson-projects/yolo_ret



Intro to AI Platform

Syllabus

→
Jungwook Choi
[\(choij@hanyang.ac.kr\)](mailto:choij@hanyang.ac.kr)
Hanyang University
2024 Spring

Evaluation (Total 100 Points)



- Attendance (10 points)
 - Random attendance check: -1 point for each unattended lecture (>10 → Grade F)
 - **Failure to return the board in good condition → Grade D**
- Labs (40 points)
 - 10 Labs – Submit a short report before the next class (format will be provided)
- Final Project (50 points)
 - Project details will be announced at around Week 12
- Extra points for active participation (up to 5 points)
 - +1 to total points if you provide a good answer for another student's question
- Absolute Grading

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WORKS WITH...

- Jetson AGX Orin
- Jetson AGX Xavier
- Jetson Nano
- Jetson Nano 2GB
- Jetson Orin NX
- Jetson TX2
- Jetson Xavier NX

NVIDIA Frameworks

- CUDA
- DeepStream SDK
- Isaac ROS
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- NVIDIA TLT
- TensorFlow

SSL-Detector
Project of the Month July 2022
João G. Melo

Nvidia HPC Autopilot
E Neto

WalrusEye
R Singh

Qualitative Heatmap Study
YOLO-ReT: Towards High Accuracy Real-time Object Detection on Edge GPUs
P Ganesh

NYC Land Cover Pseudo-segmentation and Analysis
N Kasmanoff

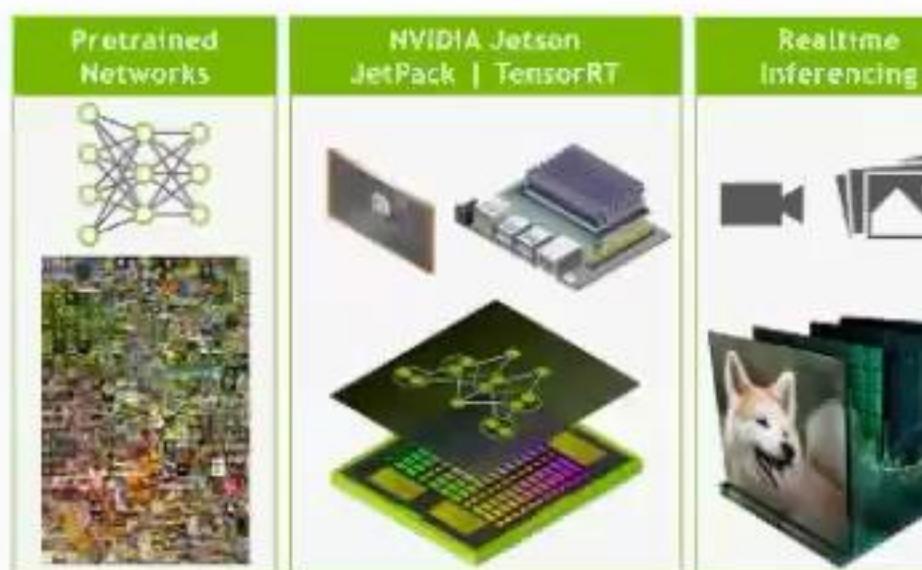
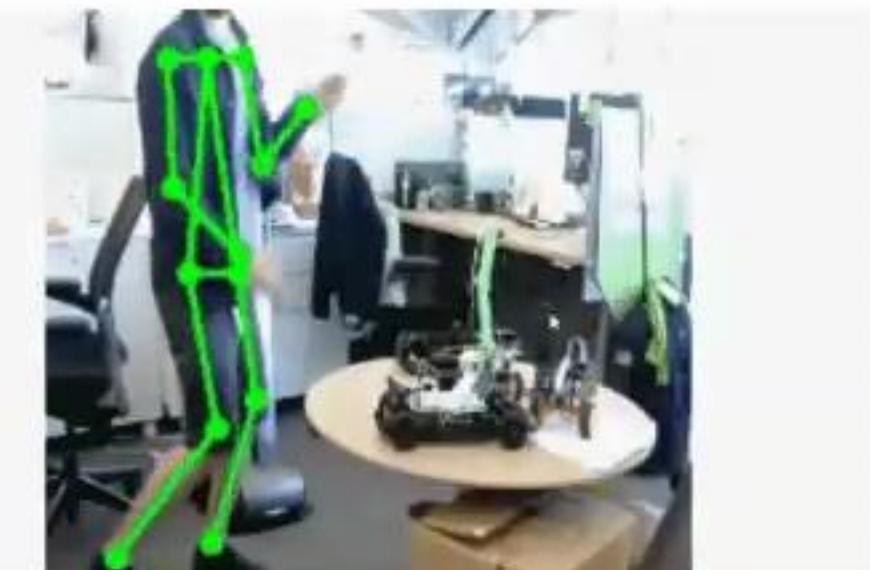
https://developer.nvidia.com/embedded/community/jetson-projects/hpc_autopilot

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Jetson Community Projects

Explore and learn from Jetson projects created by us and our community. These have been created with [Jetson developer kits](#). Scroll down to see projects with code, videos and more.

Get Started with these Projects

[Jetbot](#)[Hello AI World](#)[JetRacer](#)[Real-time Human Pose Estimation](#)[Filters](#)

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tensorRT

Public Frameworks

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3D Recognizer
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D Niewinski

ROBOT ARM that Launches Fireworks! - Canada Day Special
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Autonomous Robot Bin
J Bruton, Xrobots

CameraBot: Auto Cameraman Robot Follows YOU
J Bruton, Xrobots

JetAuto ROS Robot
Hiwonder

https://developer.nvidia.com/embedded/community/jetson-projects/off_road_la_z_boy

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- dlib
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Autonomous Robot Bin
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CameraBot: Auto Cameraman Robot Follows YQJ
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JetAuto ROS Robot
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Nanosaur
R Bonghi

LF2 - Easy Classroom Monitoring Tool for Teachers
Yu-An Lin

Realtime Neural Audio Synthesis
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Every month, we'll award one JETSON AGX ORIN Developer Kit to a project that's cut above the rest for its application, inventiveness, and creativity.

Welcome to the Jetson Projects forum!

Visit Forum

vip-member Using Jetbot with Jetson Orin Nano dev kit

Stable Diffusion on Jetson AGX Orin and Xavier

opencv Electronically Assisted Astronomy with a Jetson Nano

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<https://developer.nvidia.com/embedded/community/jetson-projects/jetracer>

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



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Jetbot

Hello AI World

JetRacer

Real-time Human Pose Estimation

Filters

Works with...

- Jetson AGX Orin
- Jetson AGX Xavier
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- Jetson Nano 2GB
- Jetson Orin NX
- Jetson TX2

Found 189 results



Project of the Month July 2022

SSL-Detector

João G. Melo



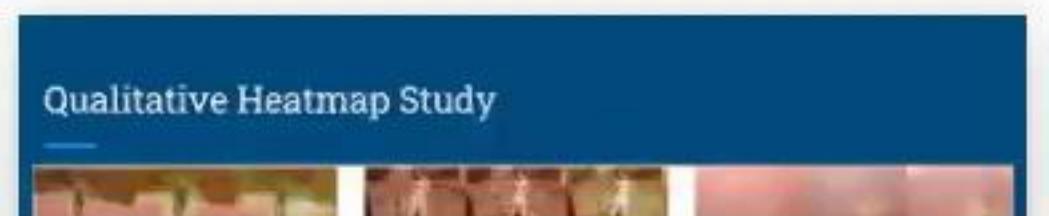
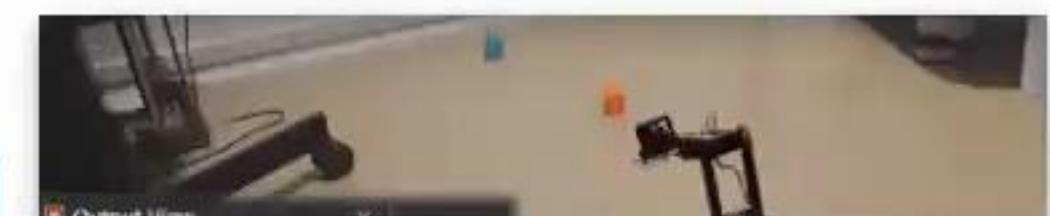
Nvidia HPC Autopilot

E Neto



WalrusEye

R Singh



Introduction



Jungwook Choi

- Course title: Intro to AI Platform and Lab
 - Course number / Course code: ELE4103 / 10411
- Instructor: Jungwook Choi (최정욱)
 - Office: Engineering center annex 702-1
 - E-mail: choij@hanyang.ac.kr
 - Homepage: <https://jchoi-hyu.github.io>
- Teaching assistants
 - Chanhee Chung (정찬희): nia4905@hanyang.ac.kr
 - Sungwan Ryu (류승완): ssk05118@hanyang.ac.kr

Class Hours and Locations



Jungwook Choi

- Theory + Lab class (IC-PBL: onsite, recorded)
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Intro to AI platform - L00 Syllabus Real-time Human Pose Estimation

developer.nvidia.com/embedded/community/jetson-projects/nv_trt_pose

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Real-time Human Pose Estimation

This project features multi-instance pose estimation accelerated by NVIDIA TensorRT. It is ideal for applications where low latency is necessary. It includes:

- Training scripts to train on any keypoint task data in MSCOCO format
- A collection of models that may be easily optimized with TensorRT using torch2trt

Authors

NVIDIA

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Works with...

Jetson Nano Jetson AGX Xavier Jetson TX2 Jetson Xavier NX Jetson Nano 2GB Jetson Orin NX Jetson AGX Orin

Resources

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



Filters

Works with...

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NVIDIA Frameworks

- CUDA

Found 189 results



Project of the Month July 2022

SSL-Detector

João G. Melo



JetClean

C Bendig Mundbjerg-Sunne

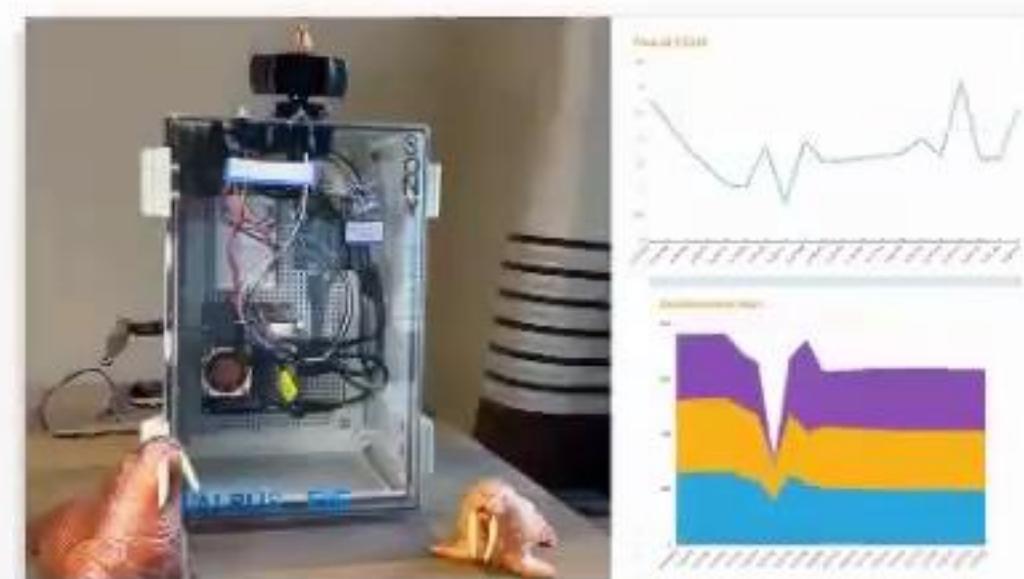


Nvidia HPC Autopilot

E Neto

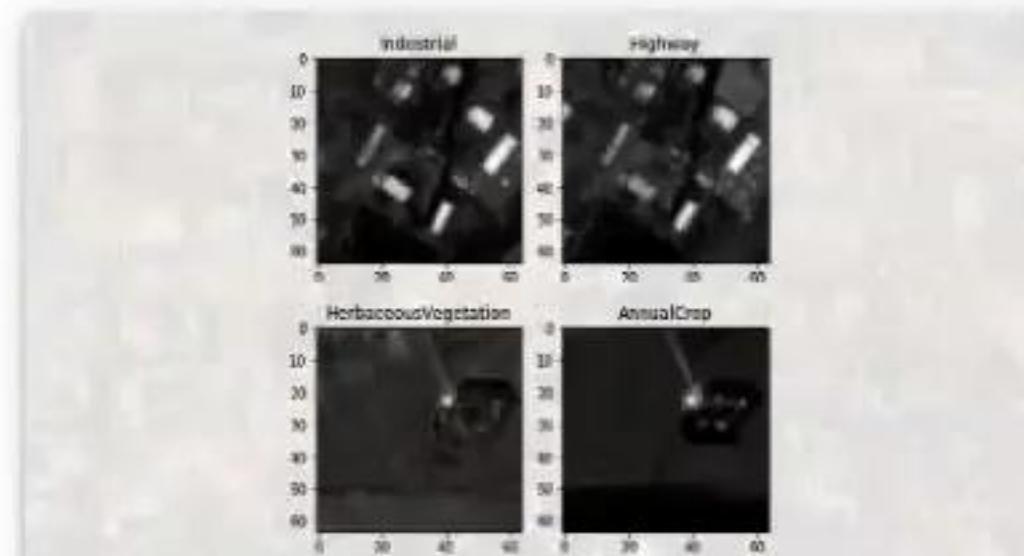


YOLO-ReT: Towards High Accuracy Real-time Object Detection on Edge



WalrusEye

R Singh



NYC Land Cover Pseudo-segmentation and Analysis



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This project can be used easily for the task of human pose estimation, or extended for something new.

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NVIDIA

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Works with...

Jetson Nano

Jetson AGX Xavier

Jetson TX2

Jetson Xavier NX

Jetson Nano 2GB

Jetson Orin NX

Jetson AGX Orin

Resources

› [View project repository](#)

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Jungwook Choi

OpenCV
 OpenPose
 PyTorch
 ROS
 TensorFlow

Featured Jetson Project

See all ▾

Autonomous Robot Bin
J Bruton, Xrobots

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JetAuto ROS Robot
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Jungwook Choi

PyTorch

ROS

TensorFlow

Featured Jetson Project

See all ▾

Nanosaur
R Bonghi

LF2 - Easy Classroom Monitoring Tool for Teachers
D Lin

Realtime Neural Audio Synthesis
A Caillon

Shanten Calculator

Project of the Month February 2022

https://developer.nvidia.com/embedded/community/jetson-projects/f2_classroom_monito...

Follows YOU

J Bruton, Xrobots

Hiwonder

Carrotanian Robot

Yu-An Lin

ESP32

NVIDIA Jetson Nano

Project of the Month May 2022

Shanten Calculator

2 shanten | 39 FPS

Intro to AI platform - L00 Syll X Real-time Human Pose Estimation X +

developer.nvidia.com/embedded/community/jetson-projects/nv_trt_pose

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Jungwook Choi

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Works with...

Jetson Nano Jetson AGX Xavier Jetson TX2 Jetson Xavier NX Jetson Nano 2GB Jetson Orin NX Jetson AGX Orin

Resources

View project repository

Intro to AI platform - L00 Syllabus BabyWatcher | NVIDIA Developer

developer.nvidia.com/embedded/community/jetson-projects/babywatcher

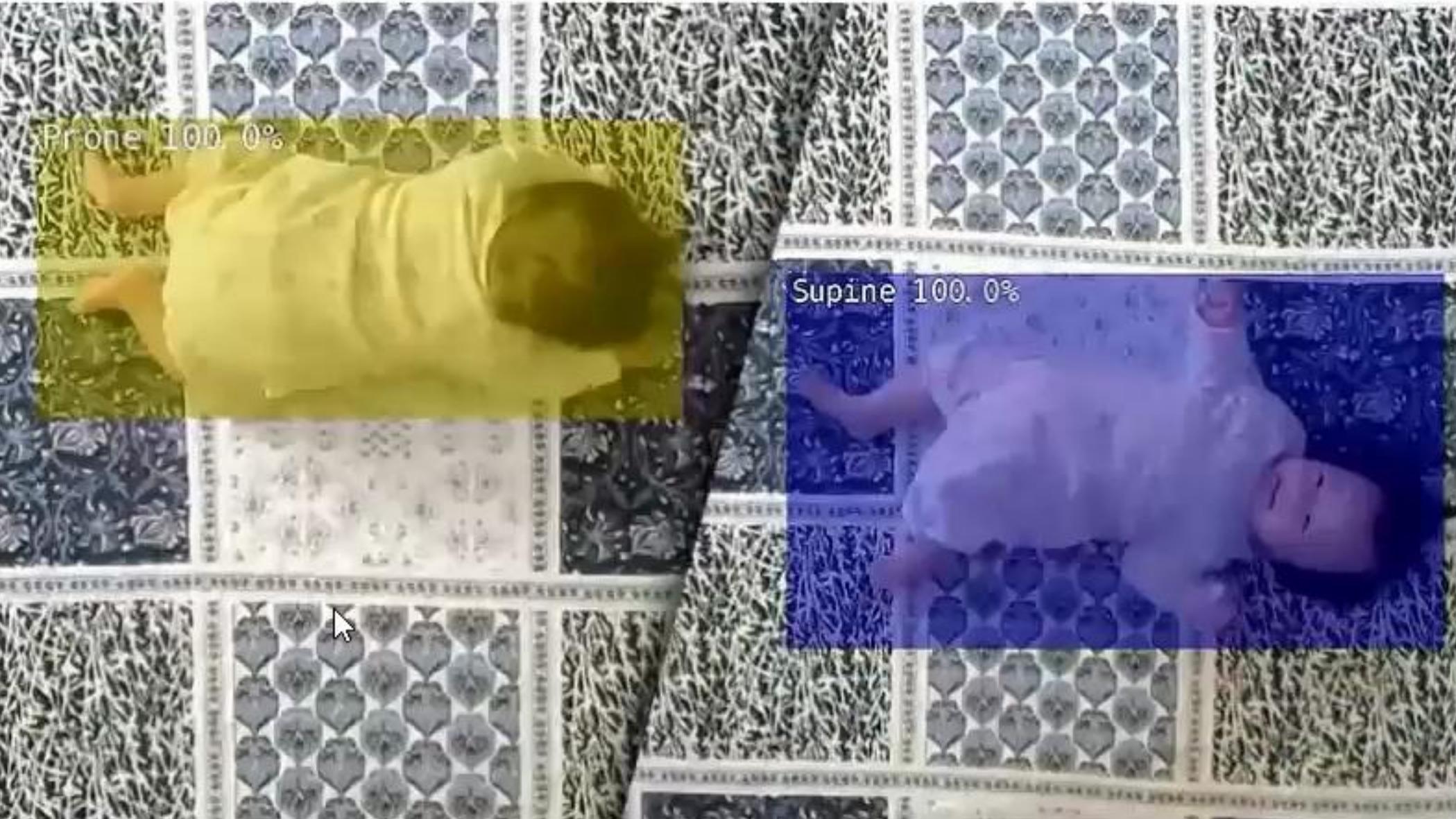
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BabyWatcher

For newborn babies, turning over and lying on their stomachs can be risk suffocation, so it is key to make sure they can sleep or stay in prone position. For their well-being, BabyWatcher monitors your newborn's position and detects if they are in prone or supine position. To create the transfer learning model, based on SSD-Mobilenet, training material was annotated with CVAT, exported into Pascal VOC format, merged into a single dataset, and automatically split into training/validation. The final transfer learning model is then converted into ONNX format.

Works with...

Jetson Nano

Authors

S Nakano

Resources

> View project repository

<https://developer.nvidia.com/embedded/community/jetson-projects/babywatcher>

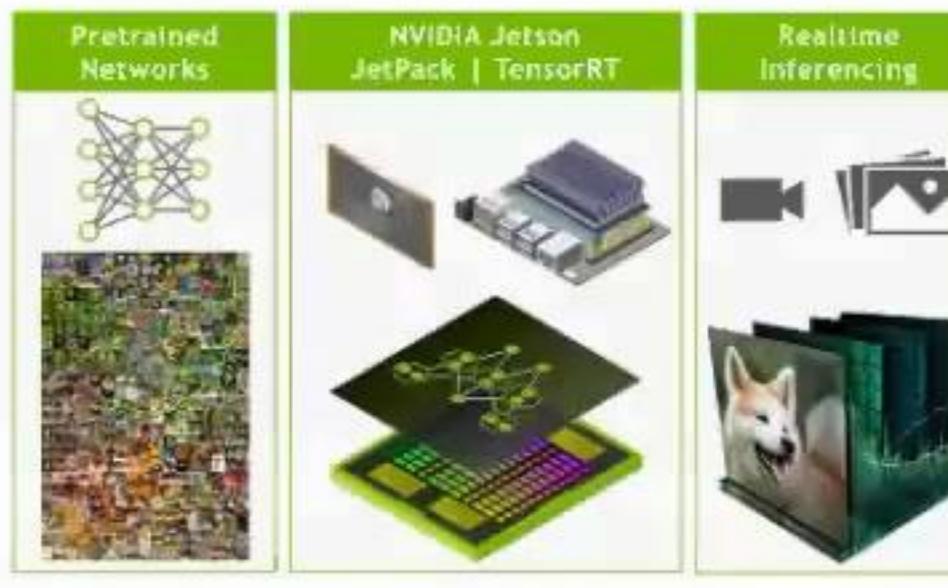


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Get Started with these Projects



Jetbot



Hello AI World



JetRacer



Real-time Human Pose Estimation

Filters

 Q

Works with... ▼

NVIDIA Frameworks ▼

Course Schedule



- 16-week course (IC-PBL, schedule can be changed...)
 - (Tentative) Invited Lecture* from an industry expert

W1	3/5 3/8	Syllabus Intro to Deep Learning	
W2	3/12 3/15	DL: Basic Concepts 1	Lab 1 (Neural Network)
W3	3/19 3/22	DL: Basic Concepts 2	Lab 2 (DL Apps)
W4	3/26 3/29	Deep Learning Framework	Lab 3 (Pytorch)
W5	4/2 4/5	CNN: Basic Concepts	Lab 4 (CNN)
W6	4/9 4/12	CNN: History	Lab 5 (Image Classification)
W7	4/16 4/19	App1: Object detection	Lab 6 (Object Detection)
W8	4/23 4/26	App2: Pose Estimation	Lab 7 (Pose Estimation)

W9	4/30 5/3	Deep Learning Platform	Lab 8 (Linux)
W10	5/7 5/10	Implementing CNN	Lab 9 (Jetson)
W11	5/14 5/17	Accelerating CNN	Lab 10 (TensorRT)
W12	5/21 5/24	Final project proposal	(Final project announcement)
W13	5/28 5/31	(Final project)	<Office hour>
W14	6/4 6/7	(Final project)	<Office hour>
W15	6/11 6/14	Final project presentation	(Final project report)
W16	6/18 6/21	(Tentative) Invited Talk	

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Jungwook Choi

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Jetbot Hello AI World JetRacer Real-time Human Pose Estimation

Filters

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NVIDIA Frameworks

Found 189 results

Project of the Month July 2022

SSL-Detector
João G. Melo

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- Absolute Grading

Final Project Goal



- **[Skill]** Use Jetson Nano to run “real” Deep Learning models
- **[Knowledge]** Apply knowledge you learn about deep learning (especially CNNs) to make your own application
- **[Novelty]** Invent an interesting AI application that can solve a real-world problem

Lab 0: Team Building



Jungwook Choi

- Make a group of 2 students
- Select a team leader
- Each team leader send TAs an email with the team information including:
 - Team member name
 - Team member email (**should be XXX@hanyang.ac.kr**)
 - Cell-phone number (for emergency contact)
- Don't worry if you don't have a colleague to work with
 - Just send an email TAs with your info, then we will find one for you

Intro to AI platform - L00 Syllabus

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Green Guard Detection and Surveillance
R Hsu, MetAI

Self-Driving-ish Computer Vision System
iwatake

JetMax
Hiwonder

BabyWatcher
S Nakano

Cat Laser Turret Robot

LabSentinel

Neurorack: A Deep AI...

<https://developer.nvidia.com/embedded/community/jetson-projects/babywatcher>

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



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R Hsu, MetAI

The screenshot shows a web browser displaying the "Jetson Community Projects" page on developer.nvidia.com. The page features a grid of six project cards, each with a thumbnail image, title, author, and a brief description. At the top right, there is a profile picture of Jungwook Choi and a sunset over the Golden Gate Bridge. The browser's address bar and various toolbars are visible at the top.

Self-Driving-ish Computer Vision System

iwatake

JetMax

Hiwonder

BabyWatcher

S Nakano

Cat Laser Turret Robot

D Niewinski

LabSentinel

N Maas

Project of the Month December 2021

Neurorack: A Deep AI-based Eurorack Synth

<https://developer.nvidia.com/embedded/community/jetson-projects/neurorack>



Jungwook Choi

Intro to AI Platform

Syllabus

Jungwook Choi
(choij@hanyang.ac.kr)
Hanyang University
2024 Spring

Course Information

- No textbook. All study materials will be provided
 - Lecture notes (uploaded to LMS before each class starts)
 - Lab materials (uploaded to LMS)
 - Suggested reading for more info (not required)
 - Practical Deep Learning for Cloud, Mobile, and Edge
(Anirudh Koul, Siddha Ganju, Meher Kasam; O'Reilly)



- Teamwork for Labs and Projects
 - Work in a team of 2 members
 - Email TA for your team preference
 - Or we will make teams for you 😊
 - NVIDIA Jetson Nano board will be provided per team
 - Need to return the board at the end of semester!



[NVIDIA Jetson Nano board](#)



자동 저장 (금) ▾ iap_2024_Lec00_syll... • 이 PC에 저장됨 ▾

검색

Jungwook Choi JC

- □ X

파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

녹음/녹화 Teams에서 프레젠테이션 공유



- 1
- 2
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- 8
- 9

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Intro to AI Platform

Syllabus

Jungwook Choi
[\(choij@hanyang.ac.kr\)](mailto:choij@hanyang.ac.kr)
Hanyang University
2024 Spring

AI Hardware and Algorithm Lab

HANYANG UNIVERSITY

여기에 슬라이드 노트의 내용을 입력하십시오

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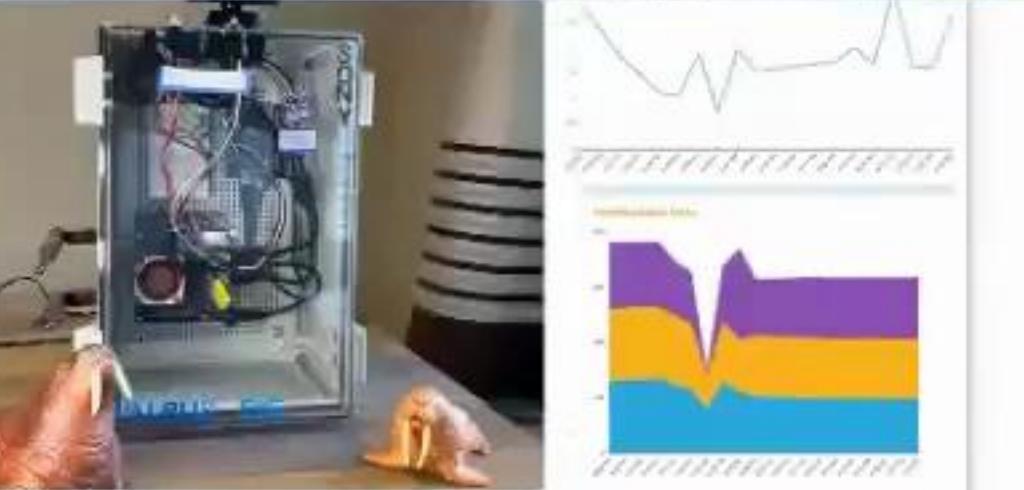
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WalrusEye

R Singh



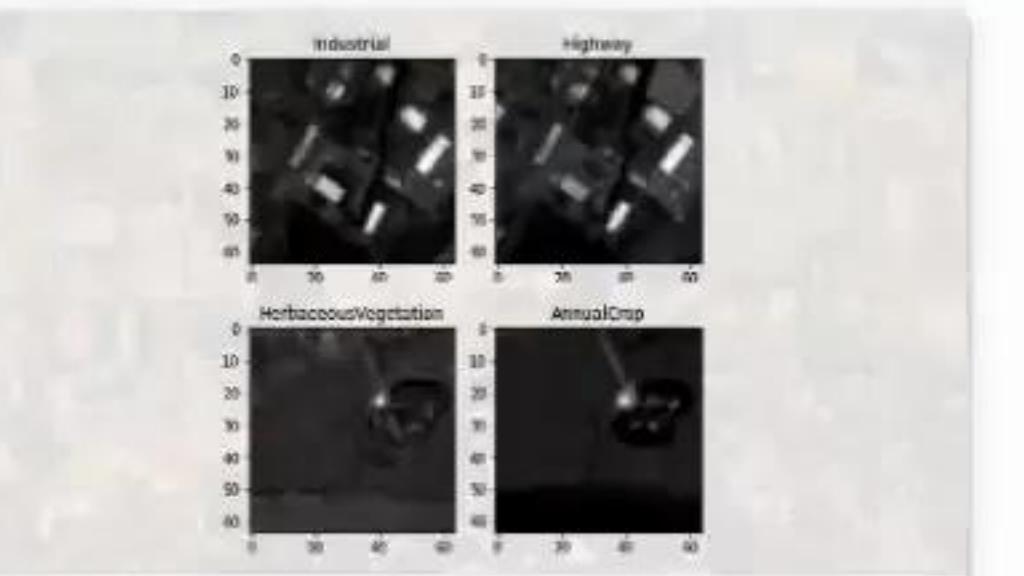
JetClean

C Bendig Mundbjerg-Sunne



YOLO-ReT: Towards High Accuracy Real-time Object Detection on Edge GPUs

P Ganesh



NYC Land Cover Pseudo-Segmentation and Analysis

N Kasmanoff



Jungwook Choi



https://developer.nvidia.com/embedded/community/jetson-projects/hpc_autopilot

Final Project Goal



Jungwook Choi

- **[Skill]** Use Jetson Nano to run “real” Deep Learning models
- **[Knowledge]** Apply knowledge you learn about deep learning (especially CNNs) to make your own application
- **[Novelty]** Invent an interesting AI application that can solve a real-world problem

Intro to AI platform - L00 Syllabus X Bus Prediction | NVIDIA Developer +

developer.nvidia.com/embedded/community/jetson-projects/bus_prediction

Sci-Hub 백남학술정보관-IEEE Google Scholar ChatGPT 네이버 사전 AIHA 2023-2 HYU ASP-DAC 2024 Co... Grammarly

Jungwook Choi

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bus_number	Column A	Column B
bus_1	9:06:12	9:08:27
bus_2	9:19:33	9:21:01
bus_3	9:32:39	9:36:57
bus_4	9:45:17	9:48:27
bus_5	9:59:22	10:01:23
bus_6	10:12:53	10:13:47
bus_7	10:25:57	10:27:03
bus_8	10:39:28	10:38:33
bus_9	10:52:51	10:52:45
bus_10	11:04:45	11:08:51
bus_11	11:16:32	11:27:45
bus_12	11:30:29	11:42:32

Bus Prediction

Predict bus arrival times with Jetson Nano. You can detect bus arrivals by locally processing a video stream from a simple camera connected via RTSP. Starting from a pretrained ImageNet model, capture images of passing buses and use them to refine the model so it can distinguish between scheduled and unscheduled buses in several weather conditions. Detected bus arrival times are logged and a predictive schedule is generated with GCP and BigQuery using Vertex AI. The arriving bus schedule can be communicated using Google IoT and home IoT devices such as Alexa.

Works with...

Jetson Nano

Authors

E Gomtsyan

Resources

View project repository

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



Intro to AI platform - L00 Syllabus Jetson Community Projects | N +

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R1mini ROS2 SLAM Mapping and Navigation
OMOROBOT (Open Mobile Robot)

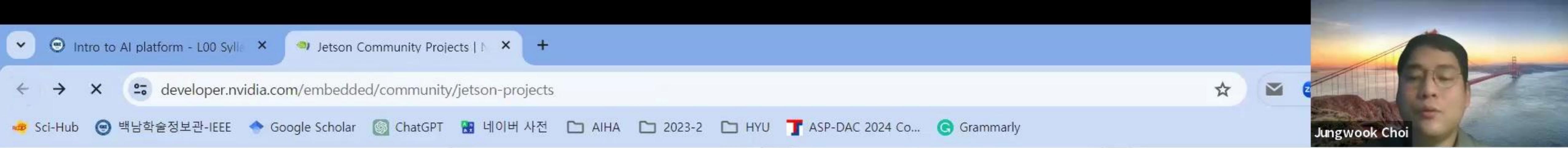
BirdCam
P Lertvilai

Ellee: A Talking Teddybear Powered by GPT-3 & Computer Vision
A Nalwan

Green Iguana Detection and Surveillance
R Hsu, MetAI

Weed Killing Robot
D Niewinski

Go Motion
N Bild



Prevent Injuries During Saw Operation with Jetson Nano

Hongyi ZHU

Banknote Counter

Steinheilig

Guitar chord detection

R Waltzer

Fruit Quality Control with Jetson Nano

Aprende e Ingenia

Pytorch Driving Guardian

L Arevalo Oliver

Project of the Month January 2022

Mariola

T Tomanek

People Flow Analysis System

Ryoyo

Project of the Month March 2022

ROS, RTABMAP & Detectron2 Racecar

S Saha

Handwriting Classifier with Docker, Jetson Nano and Flask

I El Hanafi

Intro to AI platform - L00 Syllabus Jetson Community Projects | 1 +

developer.nvidia.com/embedded/community/jetson-projects

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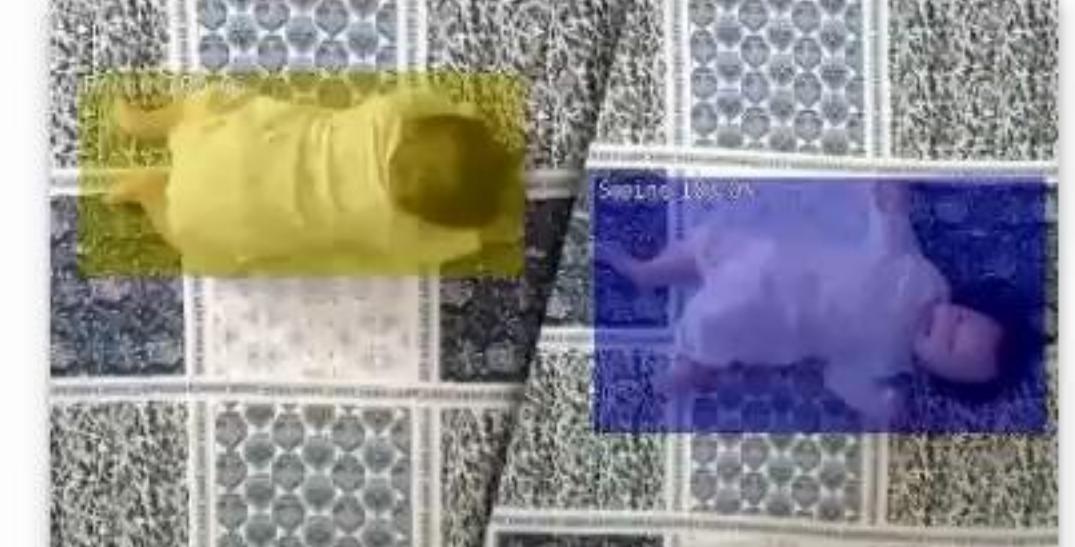
Jungwook Choi



Self-Driving-ish Computer Vision System
iwatake



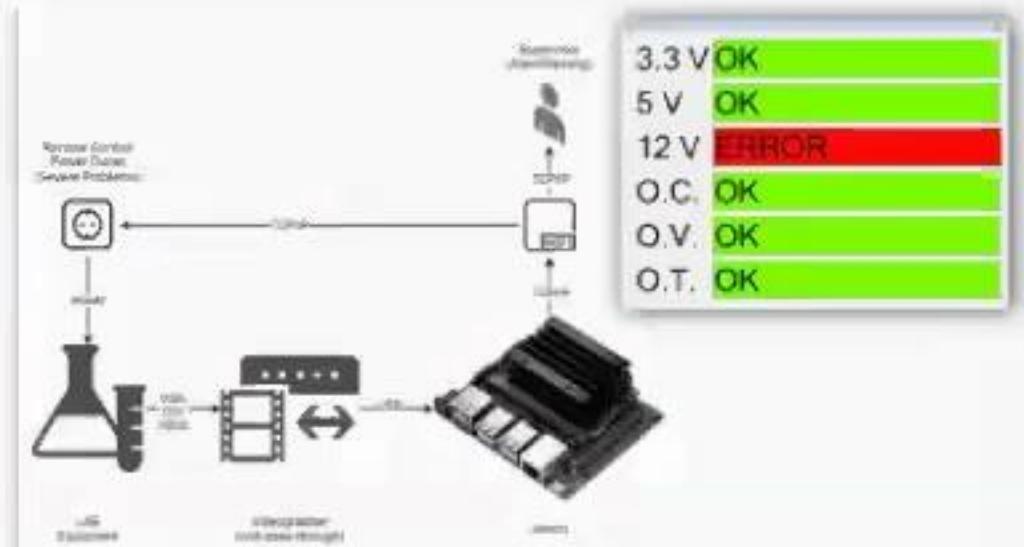
JetMax
Hiwonder



BabyWatcher
S Nakano



Cat Laser Turret Robot
D Niewinski



LabSentinel
N Maas



Project of the Month December 2021
Neurorack: A Deep AI-based Eurorack Synth
N Devis

<https://developer.nvidia.com/embedded/community/jetson-projects/neurorack>

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Jungwook Choi

Featured Jetson Project

See all ▾



Nanosaur
R Bonghi



LF2 - Easy Classroom Monitoring Tool for Teachers
D Lin



Realtime Neural Audio Synthesis
A Caillon



Project of the Month February 2022
Bus Prediction
E Gomtsyan

bus_number	Column A	Column B
bus_1	9:06:12	9:08:27
bus_2	9:19:33	9:21:01
bus_3	9:32:39	9:36:57
bus_4	9:45:17	9:48:27
bus_5	9:58:22	10:01:23
bus_6	10:12:53	10:13:47
bus_7	10:25:57	10:27:08
bus_8	10:39:28	10:38:33
bus_9	10:52:51	10:52:45
bus_10	11:04:45	11:08:51
bus_11	11:16:32	11:27:45
bus_12	11:30:29	11:42:32



Project of the Month May 2022
Bird@Edge
J Höchst, H Bellafkir, P Lampe, M Vogelbacher, M Mühlung, D Schneider, K Lindner, S Rösner, D Schabo, N Farwig, B Freisleben



Shanten Calculator
Toshiki H

https://developer.nvidia.com/embedded/community/jetson-projects/bird_at_edge

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developer.nvidia.com/embedded/community/jetson-projects

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Jungwook Choi

TensorFlow

Featured Jetson Project

See all



Nanosaur
R Bonghi



LF2 - Easy Classroom Monitoring Tool for Teachers
D Lin



Realtime Neural Audio Synthesis
A Caillon



bus_number	Column A	Column B
bus_1	9:06:12	9:08:27
bus_2	9:18:33	9:21:01
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bus_5	9:58:22	10:01:23
bus_6	10:12:53	10:13:47
bus_7	10:26:57	10:27:08
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bus_10	11:04:45	11:08:51
bus_11	11:16:32	11:27:45
bus_12	11:30:29	11:42:32

Project of the Month February 2022
Bus Prediction
E Gomtsyan



Project of the Month May 2022
Bird@Edge
J Höchst, H Bellafkir, P Lampe, M Vogelbacher, M Mühlung, D



Shanten Calculator
Toshiki H

https://developer.nvidia.com/embedded/community/jetson-projects/bird_at_edge

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



Intro to AI platform - L00 Syllabus Jetson Community Projects | N +

developer.nvidia.com/embedded/community/jetson-projects

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Jungwook Choi

The screenshot displays a grid of nine project cards from the Jetson Community Projects website. Each card includes a thumbnail image, the project title, the author's name, and a brief description.

- R1mini ROS2 SLAM Mapping and Navigation** by OMOROBOT (Open Mobile Robot): A screenshot of a mobile robot navigating through a complex indoor environment, overlaid with a 3D SLAM map showing walls and obstacles in blue and purple.
- BirdCam** by P Lertvilai: An image of a small camera mounted on a tripod, with three small video frames showing bird identification results.
- Ellee: A Talking Teddybear Powered by GPT-3 & Computer Vision** by A Nalwan: A video frame showing a person interacting with a teddy bear, with a speech bubble saying "Really? I also love dogs too".
- Green Iguana Detection and Surveillance** by R Hsu, MetAI: A screenshot of a dashboard showing two iguanas on a ledge and a line graph of their activity levels over time.
- Weed Killing Robot** by D Niewinski: A video frame of a robotic arm equipped with a weed killer spraying herbicide onto a lawn.
- Go Motion** by N Bild: A video frame of a robotic arm moving a small green object on a table.
- REALTIME SLAM Navigation** by OMOROBOT (Open Mobile Robot): A screenshot of a mobile robot navigating through a complex indoor environment, overlaid with a 3D SLAM map showing walls and obstacles in blue and purple.
- IR Sensor (Infrared)** by P Lertvilai: An image of a small camera mounted on a tripod, with three small video frames showing infrared sensor data.
- Sublime 180 3D**: A screenshot of a 3D rendering application showing a yellow cylinder and a 3D model of a face.

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



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Prevent Injuries During Saw Operation with Jetson Nano

Hongyi ZHU

Banknote Counter

Steinheilig

Guitar chord detection

R Waltzer

CONTROL DE CALIDAD DE FRUTAS EN TIEMPO REAL | Jetson Nano

Fruit Quality Control with Jetson Nano

Aprende e Ingenia

Pytorch Driving Guardian

L Arevalo Oliver

Mariola

T Tomanek

https://developer.nvidia.com/embedded/community/jetson-projects/pytorch_guardian

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Jungwook Choi

Project of the Month February 2022

Bus Prediction

E Gomtsyan

bus	arrive	depart
bus_2	9:19:33	9:21:01
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bus_4	9:45:17	9:48:27
bus_5	9:58:22	10:01:23
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bus_11	11:16:32	11:27:45
bus_12	11:30:29	11:42:32

Project of the Month May 2022

Bird@Edge

J Höchst, H Bellafkir, P Lampe, M Vogelbacher, M Mühling, D Schneider, K Lindner, S Rösner, D Schabo, N Farwig, B Freisleben

Shanten Calculator

Toshiki H

Project of the Month February 2022

Prevent Injuries During Saw Operation with Jetson Nano

ingyi ZHU

Project of the Month February 2022

Banknote Counter

Steinheilig

Project of the Month February 2022

Guitar chord detection

R Waltzer

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Jungwook Choi

The collage consists of six square screenshots arranged in a 2x3 grid. Top row: 1. A person operating a power saw with a green overlay showing a neural network heatmap. 2. A red robotic arm with two black wheels, processing a 20 Euro banknote. 3. A person playing an acoustic guitar, with a digital display overlay showing a chord diagram and notes. Bottom row: 1. A green screen titled 'CONTROL DE CALIDAD DE FRUTAS EN TIEMPO REAL' showing a banana and an apple with quality scores. 2. A man driving a car, with a small screen on the dashboard displaying a video feed. 3. A blue and white robot arm with multiple cameras, positioned next to a computer monitor displaying a 3D simulation interface.

Prevent Injuries During Saw Operation with Jetson Nano
Hongyi ZHU

Banknote Counter
Steinheilig

Guitar chord detection
R Waltzer

Fruit Quality Control with Jetson Nano
Aprende e Ingenia

Pytorch Driving Guardian
L Arevalo Oliver

Mariola
T Tomanek

https://developer.nvidia.com/embedded/community/jetson-projects/banknote_counter

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



Lab 0: Team Building



Jungwook Choi

- Make a group of 2 students
- Select a team leader
- Each team leader send TAs an email with the team information including:
 - Team member name
 - Team member email (**should be XXX@hanyang.ac.kr**)
 - Cell-phone number (for emergency contact)
◦
- Don't worry if you don't have a colleague to work with
 - Just send an email TAs with your info, then we will find one for you

자동 저장 끔 H ↻ 🔍 lap_2024... 🔍 Jungwook Choi JC

파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 녹음/녹화 검토 보기 도움말

붙여넣기 슬라이드 글꼴 단락 그리기 편집 받아쓰기 추가 기능

클립보드

1 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16

2

3

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6

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8

9

10

11

Intro to AI Platform

Syllabus

Jungwook Choi
(choij@hanyang.ac.kr)
Hanyang University
2024 Spring

AI Hardware and Algorithm Lab

HANYANG UNIVERSITY

여기에 슬라이드 노트의 내용을 입력하십시오

슬라이드 1/11 한국어 접근성: 조사 필요 메모

Final Project Examples



- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



P 자동 저장 끔 ⌂ ⌂ ⌂ iap_2024_Lec00_syll... • 이 PC에 저장됨 ▾ 검색

파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

Teams 녹음/녹화

레이아웃 12 가^ 가^ 가^

새 슬라이드 슬라이드 다시 사용 슬라이드 쇼 다시 시작(R)

클립보드 슬라이드

글꼴 단락 그림 편집

도형 정렬 도형 채우기 도형 윤곽선

찾기 바꾸기 선택

Jungwook Choi 쓰기

음성 추가 기능

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Final Project Examples

- Jetson Community Projects

<https://developer.nvidia.com/embedded/community/jetson-projects> (Ex 1, Ex 2)

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Community Gallery

Have a Jetson project to share? Post it on our [forum](#) for a chance to be featured here too. Every month, we'll award one Jetson AGX Xavier Developer Kit to a project that's a cut above the rest for its application, inventiveness and creativity.

Furthermore, you can earn an AI Certification by submitting the Jetson project that you created. Learn more about [Jetson AI Certification Programs](#).

DESCRIPTIVE AI MONITORING WITH JETSON NANO POSE ESTIMATION ON JETSON WITH OPENPIEAF

AI Hardware and Algorithm Lab

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슬라이드 7/11 한국어 접근성: 조사 필요

메모

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파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

레이아웃 새 슬라이드 슬라이드 다시 사용 슬라이드 쇼 다시 시작(R) 글꼴 단락 그리기 편집

클립보드

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Final Project Examples

- Jetson Community Projects

<https://developer.nvidia.com/embedded/community/jetson-projects> (Ex 1, Ex 2)

The screenshot shows a web browser displaying the NVIDIA Developer website's "Community Gallery". The page features a heading "Community Gallery" and a sub-instruction: "Here a Jetson project to share? Post it on our [Forum](#) for a chance to be featured here too. Every month, we'll award one Jetson AGX Xavier Developer Kit to a project that's a cut above the rest for its application, inventiveness and creativity." Below this, there are six thumbnail images of AI projects:

- DESCRIPTIVE AI (NANO)
- MONITORING WITH JETSON NANO
- POSE ESTIMATION ON JETSON WITH OPENPIPERAF
- AI HUMANOID
- AI SCREEN LIFER
- AI BODY TRACKING

A cookie consent banner at the bottom of the page reads: "NVIDIA websites use cookies to deliver and improve the website experience. See our [Privacy Policy](#) for further details on how we use cookies and how to change your cookie settings." with "ACCEPT" and "REFUSE" buttons.

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Jun Jungwook Choi Teams

받아 쓰기 추가 기능 디자이너

증정 추가 기능

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Cat Laser Turret Robot
D Niewinski

LabSentinel
N Maas

Project of the Month December 2021
Neurorack: A Deep AI-based Eurorack Synth
N Devis

Project of the Month November 2021
LiveChess2FEN: A Chess Piece Classifying Framework
D Mallón Quintana

AI for Healthcare with Jetson Nano 2GB
A Bhandare

SensorBox
Dr. H Lange, AIWerkstatt

<https://developer.nvidia.com/embedded/community/jetson-projects/labsentinel>

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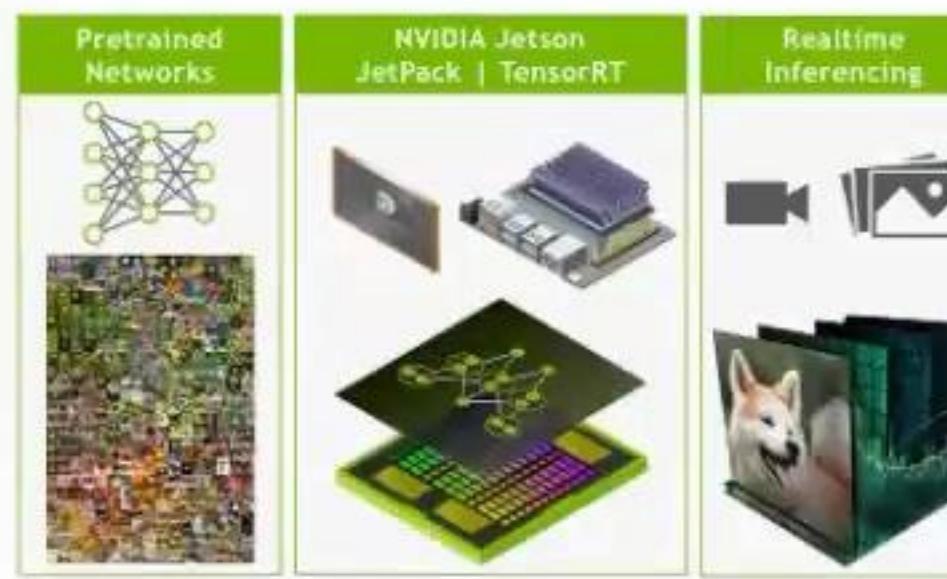
Jungwook Choi

Explore and learn from Jetson projects created by us and our community. These have been created with Jetson developer kits. Scroll down to see projects with code, videos and more.

Get Started with these Projects



Jetbot



Hello AI World



JetRacer



Real-time Human Pose Estimation

Filters

Found 189 results

Works with...

Jetson AGX Orin



Nvidia HPC Autopilot



WalrusEye

Course Overview



- AI algorithms (CNN) + Applications + Platforms
 - Understand key concepts of deep learning theories and AI applications
 - Understand the overall architecture of deep learning hardware platforms and learn how to use it
 - Learn skills to accelerate the execution of AI applications
 - Implement a creative AI system based on the techniques learned about applications and the platforms

Final Project Examples



Jungwook Choi

- Jetson Community Projects

<https://developer.nvidia.com/embedded/community/jetson-projects> (Ex 1, Ex 2)

The screenshot shows a Chrome browser window displaying the NVIDIA Developer website at <https://developer.nvidia.com/embedded/community/jetson-projects>. The page is titled "Community Gallery" and features several project thumbnails. The projects shown are:

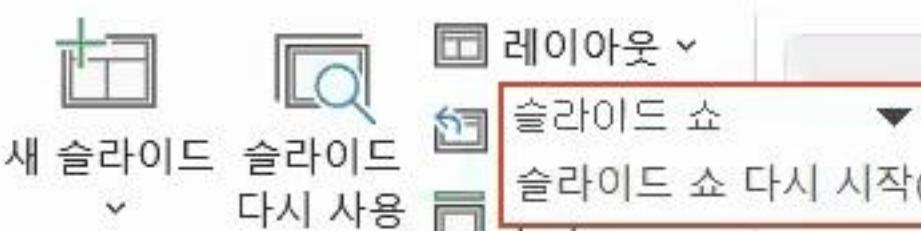
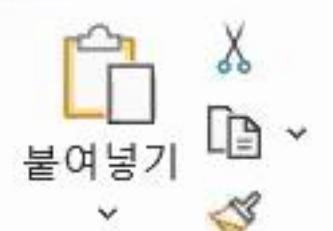
- DESCRIPTIVE AI (D-KENDRI) - A street scene with green bounding boxes and text overlays.
- MONITORING WITH JETSON NANO (R LO) - A dashboard showing a stick figure and a video feed.
- POSE ESTIMATION ON JETSON WITH OPENPIPPAF (GALLUDT) - A street scene with multiple people and their poses highlighted.
- A fourth project thumbnail is partially visible below the others.

At the bottom of the page, there is a cookie consent banner from NVIDIA.



파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

● 녹음/녹화 Teams

○ 찾기
○ 바꾸기
○ 선택받아 쓰기
추가 기능
디자이너

클립보드

슬라이드

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Final Project Examples

- Social distancing monitoring system (위대은, 최정훈, 김형민, 2021)



여기에 슬라이드 노트의 내용을 입력하십시오



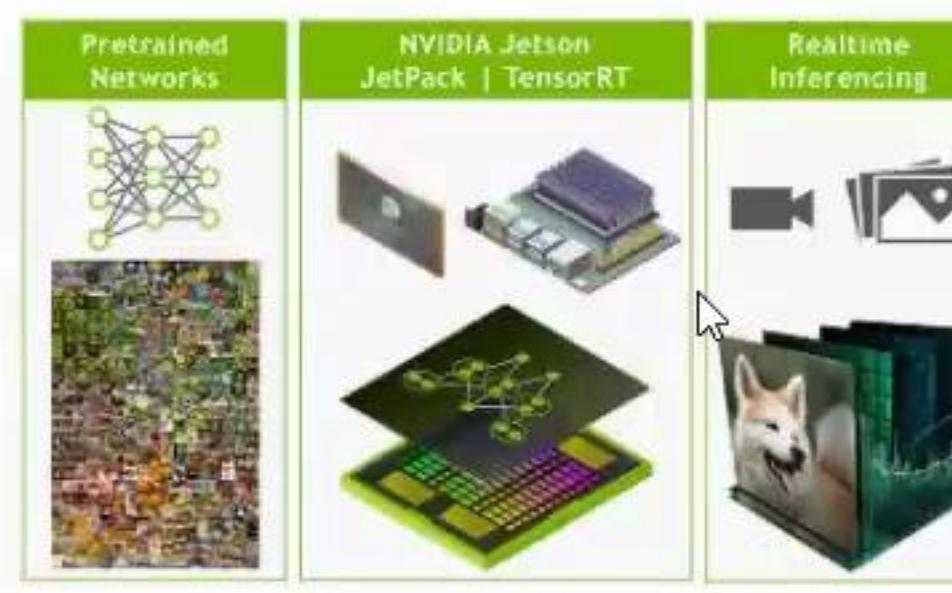
JETSON COMMUNITY PROJECTS

Explore and learn from Jetson projects created by us and our community. These have been created with Jetson developer kits. Scroll down to see projects with code, videos and more.

Get Started with these Projects



Jetbot



Hello AI World



JetRacer

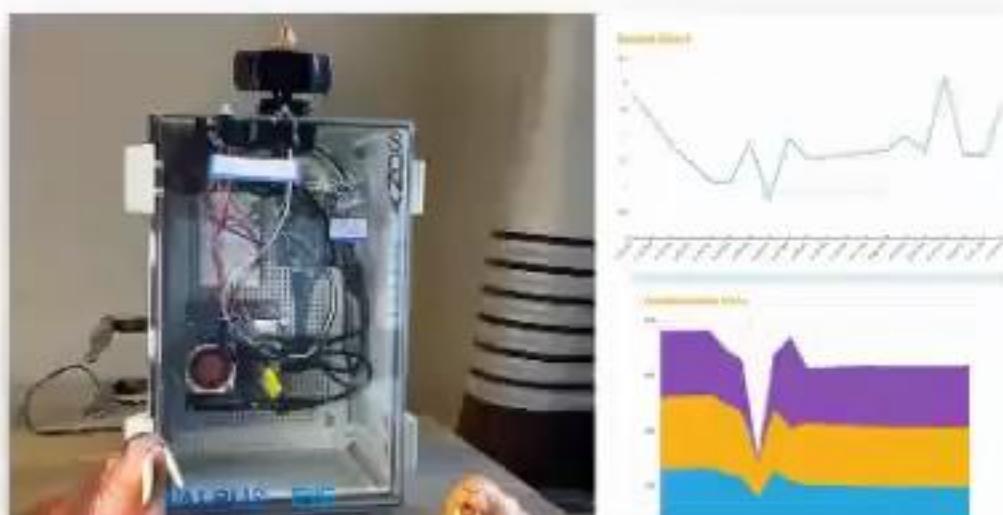


Real-time Human Pose Estimation

Filters

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Works with...



Final Project Examples



Jungwook Choi

- Jetson Community Projects

<https://developer.nvidia.com/embedded/community/jetson-projects> (Ex 1, Ex 2)

The screenshot shows a Chrome browser window displaying the NVIDIA Developer website at <https://developer.nvidia.com/embedded/community/jetson-projects>. The page is titled "Community Gallery". It features several project thumbnails:

- DESCRIPTIVE AI** by D KENDRI: A street scene with green bounding boxes and text overlays.
- MONITORING WITH JETSON NANO** by R LO: A monitoring interface showing a stick figure and a video feed.
- POSE ESTIMATION ON JETSON WITH OPENPIPPAF** by GALIDITI: A street scene with multiple people tracked by a skeleton overlay.
- AI MUSICIAN**: A person playing a guitar with a green energy effect overlay.
- PERSON COUNTING**: A hallway scene with people tracked by a skeleton overlay.
- OpenPose**: A diagram illustrating the OpenPose pipeline for pose estimation.

At the bottom, there is a cookie consent banner from NVIDIA.

P 자동 저장 (금) iap_2024_Lec00_syll... • 이 PC에 저장됨 검색 Jun Teams Jungwook Choi

파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

레이아웃 새 슬라이드 슬라이드 다시 사용 슬라이드 쇼 다시 시작(R)

클립보드

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Final Project Goal

- [Skill] Use Jetson Nano to run “real” Deep Learning models
- [Knowledge] Apply knowledge you learn about deep learning (especially CNNs) to make your own application
- [Novelty] Invent an interesting AI application that can solve a real-world problem

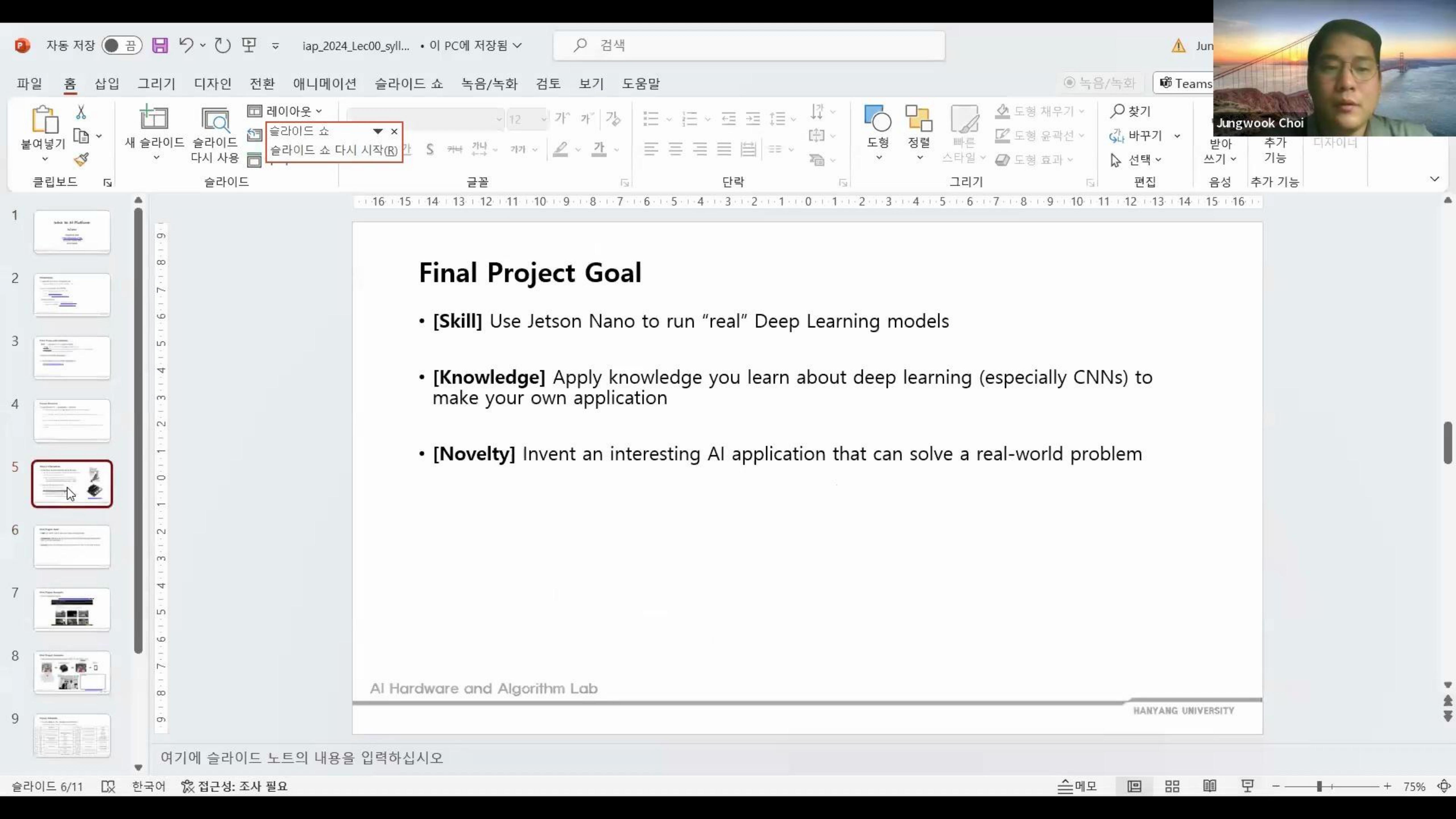
AI Hardware and Algorithm Lab

HANYANG UNIVERSITY

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슬라이드 6/11 한국어 접근성: 조사 필요

스메모



Intro to AI platform - L00 Syllabus Jetson Community Projects | +

developer.nvidia.com/embedded/community/jetson-projects

Sci-Hub 백남학술정보관-IEEE Google Scholar ChatGPT 네이버 사전 AIHA 2023-2 HYU ASP-DAC 2024 Co... Grammarly

Jungwook Choi

Project of the Month November 2021

LiveChess2FEN: A Chess Piece Classifying Framework

D Mallasén Quintana

AI for Healthcare with Jetson Nano 2GB

A Bhandare

SensorBox

Dr. H Lange, AIWerkstatt

Project of the Month October 2021

ALL Jetson Nano Classifier

Acute Lymphoblastic Leukemia Classification with Jetson Nano

A Milton-Barker

Robot Nano Hand

Silicon Highway

Jetson Multicamera Pipelines

T Lewicki

https://developer.nvidia.com/embedded/community/jetson-projects/robot_nano_hand

P 자동 저장 □ 끔 ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ iap_2024_Lec00_syll... • 0) PC에 저장됨 ▼ 검색

파일 홈 삽입 그리기 디자인 전환 애니메이션 슬라이드 쇼 녹음/녹화 검토 보기 도움말

레이아웃 □ 레이아웃 □

새 슬라이드 □ 새 슬라이드 □

클립보드

선택 □ 편집

선택 □ 편집

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Final Project Examples

- Jetson Community Projects

<https://developer.nvidia.com/embedded/community/jetson-projects> (Ex 1, Ex 2)

Community Gallery

Have a Jetson project to share? Post it on our [Forum](#) for a chance to be featured here too. Every month, we'll award one Jetson AGX Xavier Developer Kit to a project that's a cut above the rest for its application, inventiveness and creativity.

Furthermore, you can earn an AI Certification by submitting the Jetson project that you created. Learn more about [Jetson AI Certification Programs](#).

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슬라이드 7/11

한국어

접근성: 조사 필요

스메모

75%



Jungwook Choi

Intro to AI Platform

Syllabus

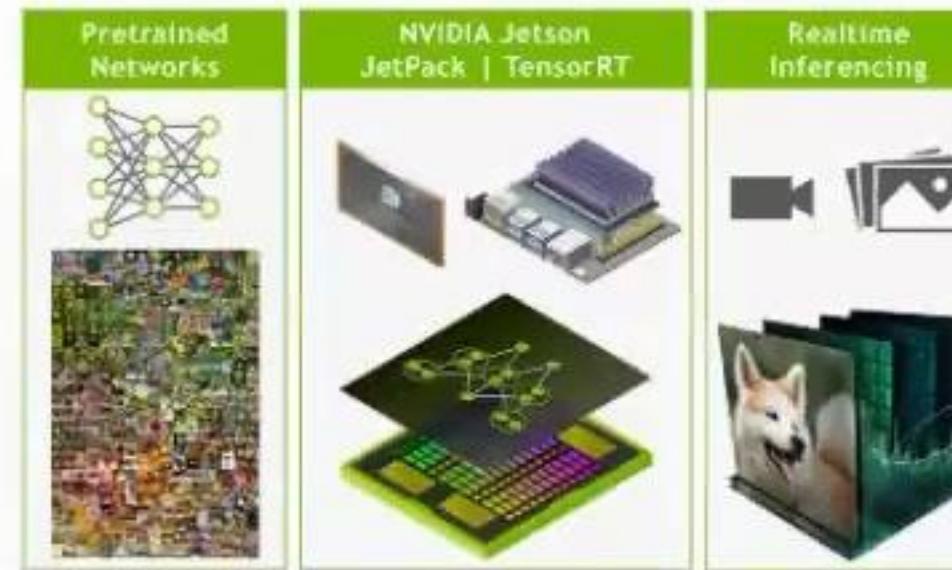


Jungwook Choi
[\(choij@hanyang.ac.kr\)](mailto:choij@hanyang.ac.kr)
Hanyang University
2024 Spring

Get Started with these Projects



Jetbot



Hello AI World



JetRacer



Real-time Human Pose Estimation

Filters

Found 189 results

Works with...

- Jetson AGX Orin
- Jetson AGX Xavier
- Jetson Nano



Project of the Month July 2022

SSL-Detector

João G. Melo

https://developer.nvidia.com/embedded/community/jetson-projects/hello_ai_world



Nvidia HPC Autopilot

E Neto



WalrusEye

R Singh

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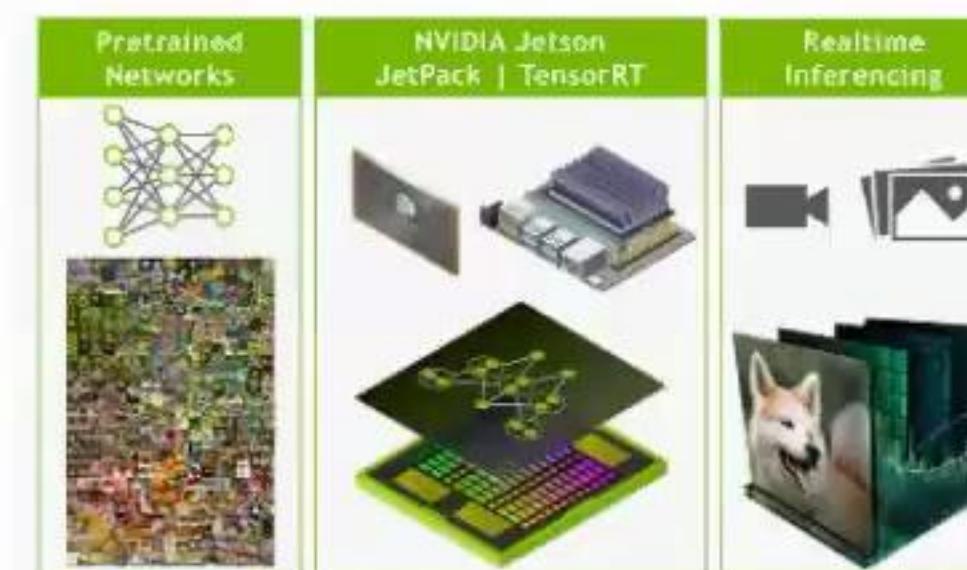
Jetson Community Projects

Explore and learn from Jetson projects created by us and our community. These have been created with Jetson developer kits. Scroll down to see projects with code, videos and more.

Get Started with these Projects



Jetbot



Hello AI World



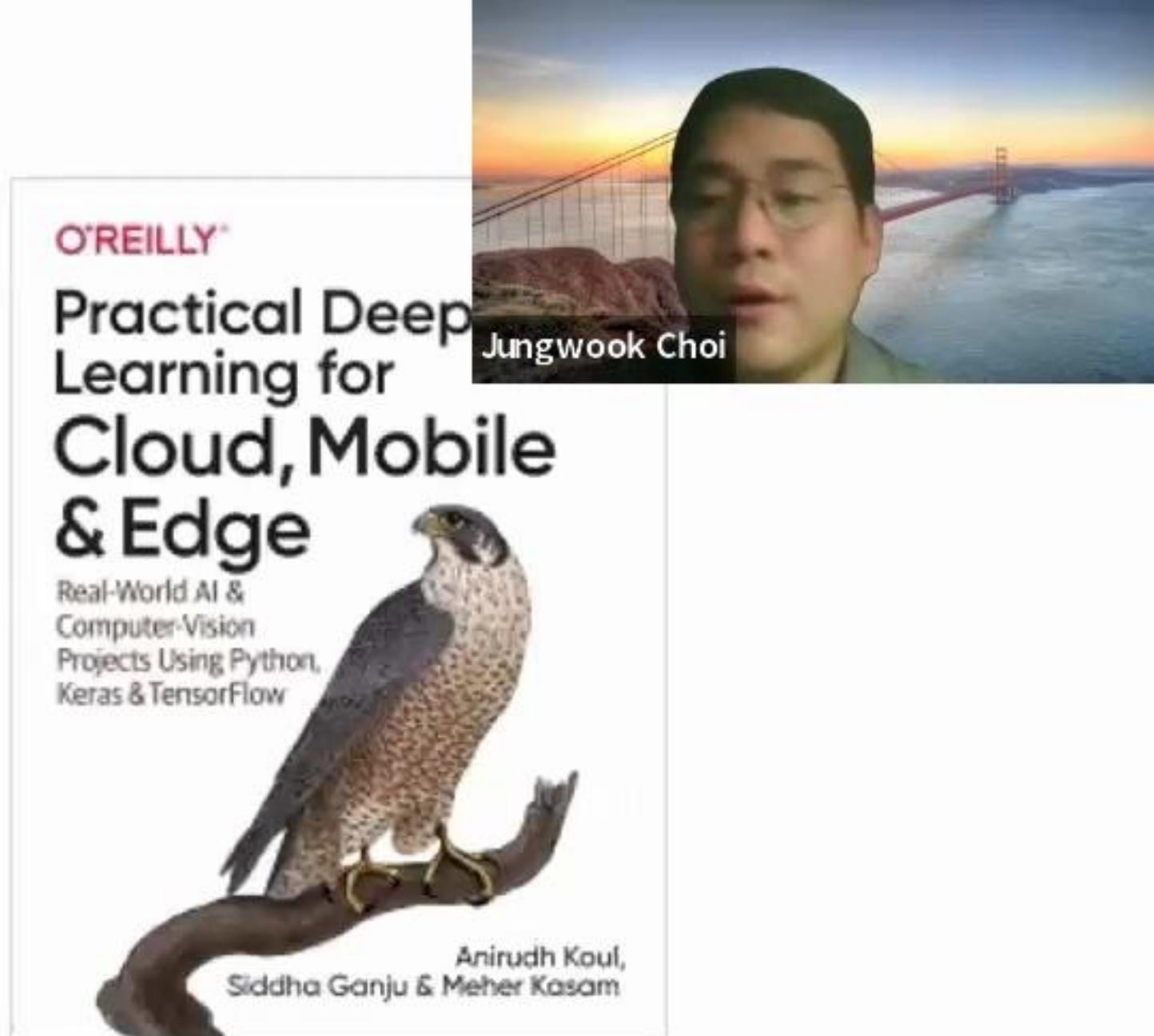
JetRacer



Real-time Human Pose Estimation

Course Information

- No textbook. All study materials will be provided
 - Lecture notes (uploaded to LMS before each class starts)
 - Lab materials (uploaded to LMS)
 - Suggested reading for more info (not required)
 - Practical Deep Learning for Cloud, Mobile, and Edge
(Anirudh Koul, Siddha Ganju, Meher Kasam; O'Reilly)



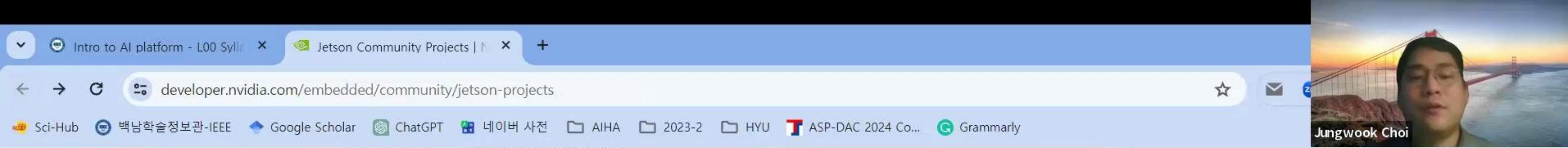
- Teamwork for Labs and Projects
 - Work in a team of 2 members
 - Email TA for your team preference
 - Or we will make teams for you 😊
 - NVIDIA Jetson Nano board will be provided per team
 - Need to return the board at the end of semester!



[NVIDIA Jetson Nano board](#)



Jungwook Choi



ALL Jetson Nano Classifier

Project of the Month October 2021

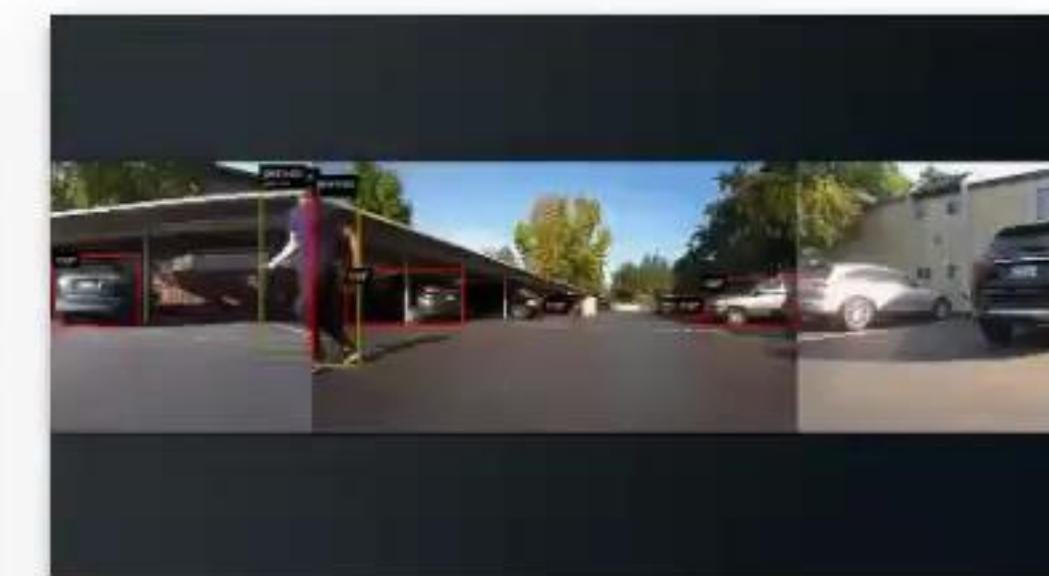
Acute Lymphoblastic Leukemia Classification with Jetson Nano

A Milton-Barker



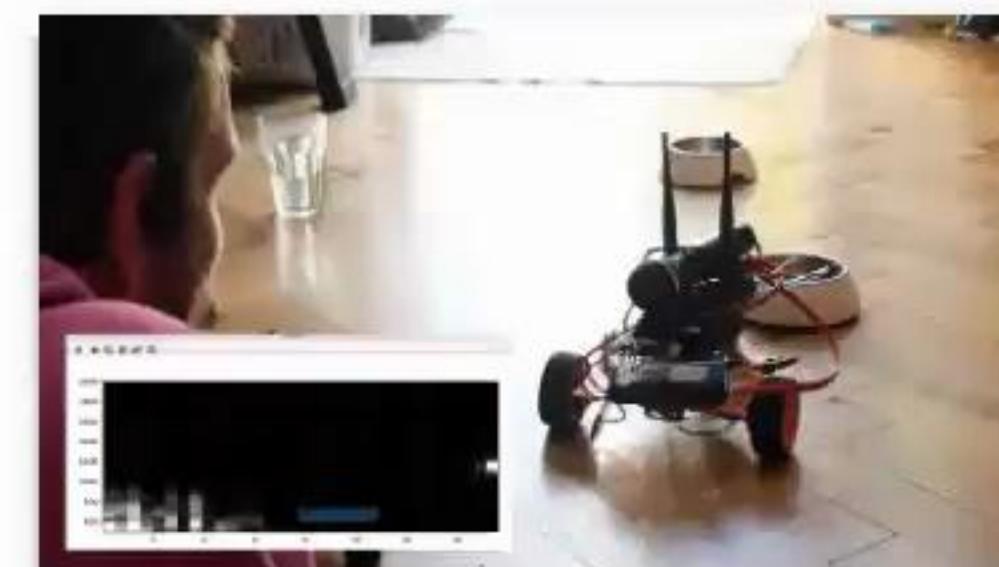
Robot Nano Hand

Silicon Highway



Jetson Multicamera Pipelines

T Lewicki



Sheepdog Whistle Neural Network



Beer Sherpa

D Niewinski



Dart Score Detector

K Kawasaki