

Downloading and Extracting Packages:

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

#

To activate this environment, use

#

\$ conda activate pvcnn_env

#

To deactivate an active environment, use

#

\$ conda deactivate

Collecting open3d

Downloading open3d-0.19.0-cp310-cp310-manylinux_2_31_x86_64.whl.metadata (4.3 kB)

Collecting numpy>=1.18.0 (from open3d)

Downloading

numpy-2.2.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (62 kB)

Collecting dash>=2.6.0 (from open3d)

Downloading dash-3.0.4-py3-none-any.whl.metadata (10 kB)

Collecting werkzeug>=3.0.0 (from open3d)

Downloading werkzeug-3.1.3-py3-none-any.whl.metadata (3.7 kB)

Collecting flask>=3.0.0 (from open3d)

Downloading flask-3.1.1-py3-none-any.whl.metadata (3.0 kB)

Collecting nbformat>=5.7.0 (from open3d)

Downloading nbformat-5.10.4-py3-none-any.whl.metadata (3.6 kB)

Collecting configargparse (from open3d)

Downloading configargparse-1.7.1-py3-none-any.whl.metadata (24 kB)

Collecting ipywidgets>=8.0.4 (from open3d)

Downloading ipywidgets-8.1.7-py3-none-any.whl.metadata (2.4 kB)

Collecting addict (from open3d)

Downloading addict-2.4.0-py3-none-any.whl.metadata (1.0 kB)

Collecting pillow>=9.3.0 (from open3d)

Downloading pillow-11.2.1-cp310-cp310-manylinux_2_28_x86_64.whl.metadata (8.9 kB)

Collecting matplotlib>=3 (from open3d)

Downloading

matplotlib-3.10.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (11 kB)

Collecting pandas>=1.0 (from open3d)

Downloading

pandas-2.3.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (91 kB)

Collecting pyyaml<=5.4.1 (from open3d)
 Downloading
PyYAML-6.0.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(2.1 kB)
Collecting scikit-learn<=0.21 (from open3d)
 Downloading
scikit_learn-1.7.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(17 kB)
Collecting tqdm (from open3d)
 Downloading tqdm-4.67.1-py3-none-any.whl.metadata (57 kB)
Collecting pyquaternion (from open3d)
 Downloading pyquaternion-0.9.9-py3-none-any.whl.metadata (1.4 kB)
Collecting flask<=3.0.0 (from open3d)
 Downloading flask-3.0.3-py3-none-any.whl.metadata (3.2 kB)
Collecting werkzeug<=3.0.0 (from open3d)
 Downloading werkzeug-3.0.6-py3-none-any.whl.metadata (3.7 kB)
Collecting plotly<=5.0.0 (from dash<=2.6.0->open3d)
 Downloading plotly-6.1.2-py3-none-any.whl.metadata (6.9 kB)
Collecting importlib-metadata (from dash<=2.6.0->open3d)
 Downloading importlib_metadata-8.7.0-py3-none-any.whl.metadata (4.8 kB)
Collecting typing-extensions<=4.1.1 (from dash<=2.6.0->open3d)
 Downloading typing_extensions-4.14.0-py3-none-any.whl.metadata (3.0 kB)
Collecting requests (from dash<=2.6.0->open3d)
 Downloading requests-2.32.3-py3-none-any.whl.metadata (4.6 kB)
Collecting retrying (from dash<=2.6.0->open3d)
 Downloading retrying-1.3.4-py3-none-any.whl.metadata (6.9 kB)
Collecting nest-asyncio (from dash<=2.6.0->open3d)
 Downloading nest_asyncio-1.6.0-py3-none-any.whl.metadata (2.8 kB)
Requirement already satisfied: setuptools in
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from
dash<=2.6.0->open3d) (78.1.1)
Collecting Jinja2<=3.1.2 (from flask<=3.0.0->open3d)
 Using cached jinja2-3.1.6-py3-none-any.whl.metadata (2.9 kB)
Collecting itsdangerous<=2.1.2 (from flask<=3.0.0->open3d)
 Downloading itsdangerous-2.2.0-py3-none-any.whl.metadata (1.9 kB)
Collecting click<=8.1.3 (from flask<=3.0.0->open3d)
 Downloading click-8.2.1-py3-none-any.whl.metadata (2.5 kB)
Collecting blinker<=1.6.2 (from flask<=3.0.0->open3d)
 Downloading blinker-1.9.0-py3-none-any.whl.metadata (1.6 kB)
Collecting MarkupSafe<=2.1.1 (from werkzeug<=3.0.0->open3d)
 Downloading
MarkupSafe-3.0.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadat
a (4.0 kB)
Collecting comm<=0.1.3 (from ipywidgets<=8.0.4->open3d)

Downloading comm-0.2.2-py3-none-any.whl.metadata (3.7 kB)
Collecting ipython>=6.1.0 (from ipywidgets>=8.0.4->open3d)
 Downloading ipython-8.37.0-py3-none-any.whl.metadata (5.1 kB)
Collecting traitlets>=4.3.1 (from ipywidgets>=8.0.4->open3d)
 Downloading traitlets-5.14.3-py3-none-any.whl.metadata (10 kB)
Collecting widgetsnbextension~4.0.14 (from ipywidgets>=8.0.4->open3d)
 Downloading widgetsnbextension-4.0.14-py3-none-any.whl.metadata (1.6 kB)
Collecting jupyterlab_widgets~3.0.15 (from ipywidgets>=8.0.4->open3d)
 Downloading jupyterlab_widgets-3.0.15-py3-none-any.whl.metadata (20 kB)
Collecting decorator (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading decorator-5.2.1-py3-none-any.whl.metadata (3.9 kB)
Collecting exceptiongroup (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading exceptiongroup-1.3.0-py3-none-any.whl.metadata (6.7 kB)
Collecting jedi>=0.16 (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading jedi-0.19.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting matplotlib-inline (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading matplotlib_inline-0.1.7-py3-none-any.whl.metadata (3.9 kB)
Collecting pexpect>4.3 (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading pexpect-4.9.0-py2.py3-none-any.whl.metadata (2.5 kB)
Collecting prompt_toolkit<3.1.0,>=3.0.41 (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading prompt_toolkit-3.0.51-py3-none-any.whl.metadata (6.4 kB)
Collecting pygments>=2.4.0 (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading pygments-2.19.1-py3-none-any.whl.metadata (2.5 kB)
Collecting stack_data (from ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading stack_data-0.6.3-py3-none-any.whl.metadata (18 kB)
Collecting wcwidth (from
prompt_toolkit<3.1.0,>=3.0.41->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading wcwidth-0.2.13-py2.py3-none-any.whl.metadata (14 kB)
Collecting parso<0.9.0,>=0.8.4 (from jedi>=0.16->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading parso-0.8.4-py2.py3-none-any.whl.metadata (7.7 kB)
Collecting contourpy>=1.0.1 (from matplotlib>=3->open3d)
 Downloading
contourpy-1.3.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(5.5 kB)
Collecting cycler>=0.10 (from matplotlib>=3->open3d)
 Downloading cycler-0.12.1-py3-none-any.whl.metadata (3.8 kB)
Collecting fonttools>=4.22.0 (from matplotlib>=3->open3d)
 Downloading
fonttools-4.58.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(106 kB)
Collecting kiwisolver>=1.3.1 (from matplotlib>=3->open3d)
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kiwisolver-1.4.8-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl.metadata
(6.2 kB)

Collecting packaging>=20.0 (from matplotlib>=3->open3d)
 Downloading packaging-25.0-py3-none-any.whl.metadata (3.3 kB)
Collecting pyparsing>=2.3.1 (from matplotlib>=3->open3d)
 Downloading pyparsing-3.2.3-py3-none-any.whl.metadata (5.0 kB)
Collecting python-dateutil>=2.7 (from matplotlib>=3->open3d)
 Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting fastjsonschema>=2.15 (from nbformat>=5.7.0->open3d)
 Downloading fastjsonschema-2.21.1-py3-none-any.whl.metadata (2.2 kB)
Collecting jsonschema>=2.6 (from nbformat>=5.7.0->open3d)
 Downloading jsonschema-4.24.0-py3-none-any.whl.metadata (7.8 kB)
Collecting jupyter-core!=5.0.*,>=4.12 (from nbformat>=5.7.0->open3d)
 Downloading jupyter_core-5.8.1-py3-none-any.whl.metadata (1.6 kB)
Collecting attrs>=22.2.0 (from jsonschema>=2.6->nbformat>=5.7.0->open3d)
 Downloading attrs-25.3.0-py3-none-any.whl.metadata (10 kB)
Collecting jsonschema-specifications>=2023.03.6 (from
jsonschema>=2.6->nbformat>=5.7.0->open3d)
 Downloading jsonschema_specifications-2025.4.1-py3-none-any.whl.metadata (2.9 kB)
Collecting referencing>=0.28.4 (from jsonschema>=2.6->nbformat>=5.7.0->open3d)
 Downloading referencing-0.36.2-py3-none-any.whl.metadata (2.8 kB)
Collecting rpds-py>=0.7.1 (from jsonschema>=2.6->nbformat>=5.7.0->open3d)
 Downloading
rpds_py-0.25.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata
(4.1 kB)
Collecting platformdirs>=2.5 (from jupyter-core!=5.0.*,>=4.12->nbformat>=5.7.0->open3d)
 Downloading platformdirs-4.3.8-py3-none-any.whl.metadata (12 kB)
Collecting pytz>=2020.1 (from pandas>=1.0->open3d)
 Downloading pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata>=2022.7 (from pandas>=1.0->open3d)
 Downloading tzdata-2025.2-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting ptyprocess>=0.5 (from pexpect>4.3->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
 Downloading ptyprocess-0.7.0-py2.py3-none-any.whl.metadata (1.3 kB)
Collecting narwhals>=1.15.1 (from plotly>=5.0.0->dash>=2.6.0->open3d)
 Downloading narwhals-1.42.0-py3-none-any.whl.metadata (11 kB)
Collecting six>=1.5 (from python-dateutil>=2.7->matplotlib>=3->open3d)
 Downloading six-1.17.0-py2.py3-none-any.whl.metadata (1.7 kB)
Collecting scipy>=1.8.0 (from scikit-learn>=0.21->open3d)
 Downloading
scipy-1.15.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (61
kB)
Collecting joblib>=1.2.0 (from scikit-learn>=0.21->open3d)
 Downloading joblib-1.5.1-py3-none-any.whl.metadata (5.6 kB)
Collecting threadpoolctl>=3.1.0 (from scikit-learn>=0.21->open3d)
 Downloading threadpoolctl-3.6.0-py3-none-any.whl.metadata (13 kB)
Collecting zipp>=3.20 (from importlib-metadata->dash>=2.6.0->open3d)

Downloading zipp-3.23.0-py3-none-any.whl.metadata (3.6 kB)
Collecting charset-normalizer<4,>=2 (from requests->dash>=2.6.0->open3d)
Downloading
charset_normalizer-3.4.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (35 kB)
Collecting idna<4,>=2.5 (from requests->dash>=2.6.0->open3d)
Downloading idna-3.10-py3-none-any.whl.metadata (10 kB)
Collecting urllib3<3,>=1.21.1 (from requests->dash>=2.6.0->open3d)
Downloading urllib3-2.4.0-py3-none-any.whl.metadata (6.5 kB)
Collecting certifi>=2017.4.17 (from requests->dash>=2.6.0->open3d)
Downloading certifi-2025.4.26-py3-none-any.whl.metadata (2.5 kB)
Collecting executing>=1.2.0 (from stack_data->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
Downloading executing-2.2.0-py2.py3-none-any.whl.metadata (8.9 kB)
Collecting asttokens>=2.1.0 (from stack_data->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
Downloading asttokens-3.0.0-py3-none-any.whl.metadata (4.7 kB)
Collecting pure-eval (from stack_data->ipython>=6.1.0->ipywidgets>=8.0.4->open3d)
Downloading pure_eval-0.2.3-py3-none-any.whl.metadata (6.3 kB)
Downloading open3d-0.19.0-cp310-cp310-manylinux_2_31_x86_64.whl (447.7 MB)

447.7/447.7 MB 68.3 MB/s eta 0:00:00

Downloading dash-3.0.4-py3-none-any.whl (7.9 MB)

7.9/7.9 MB 75.3 MB/s eta 0:00:00

Downloading flask-3.0.3-py3-none-any.whl (101 kB)
Downloading werkzeug-3.0.6-py3-none-any.whl (227 kB)
Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Downloading click-8.2.1-py3-none-any.whl (102 kB)
Downloading ipywidgets-8.1.7-py3-none-any.whl (139 kB)
Downloading jupyterlab_widgets-3.0.15-py3-none-any.whl (216 kB)
Downloading widgetsnbextension-4.0.14-py3-none-any.whl (2.2 MB)

2.2/2.2 MB 102.0 MB/s eta 0:00:00

Downloading comm-0.2.2-py3-none-any.whl (7.2 kB)
Downloading ipython-8.37.0-py3-none-any.whl (831 kB)

831.9/831.9 kB 50.7 MB/s eta 0:00:00

Downloading prompt_toolkit-3.0.51-py3-none-any.whl (387 kB)
Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Downloading jedi-0.19.2-py2.py3-none-any.whl (1.6 MB)

1.6/1.6 MB 87.2 MB/s eta 0:00:00

Downloading parso-0.8.4-py2.py3-none-any.whl (103 kB)
Using cached jinja2-3.1.6-py3-none-any.whl (134 kB)

Downloading

MarkupSafe-3.0.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (20 kB)

Downloading

matplotlib-3.10.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (8.6 MB)

8.6/8.6 MB 76.9 MB/s eta 0:00:00

Downloading

contourpy-1.3.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (325 kB)

Downloading cycler-0.12.1-py3-none-any.whl (8.3 kB)

Downloading

fonttools-4.58.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (4.8 MB)

4.8/4.8 MB 73.1 MB/s eta 0:00:00

Downloading

kiwisolver-1.4.8-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (1.6 MB)

1.6/1.6 MB 107.8 MB/s eta 0:00:00

Downloading nbformat-5.10.4-py3-none-any.whl (78 kB)

Downloading fastjsonschema-2.21.1-py3-none-any.whl (23 kB)

Downloading jsonschema-4.24.0-py3-none-any.whl (88 kB)

Downloading attrs-25.3.0-py3-none-any.whl (63 kB)

Downloading jsonschema_specifications-2025.4.1-py3-none-any.whl (18 kB)

Downloading jupyter_core-5.8.1-py3-none-any.whl (28 kB)

Downloading numpy-2.2.6-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.8 MB)

16.8/16.8 MB 76.7 MB/s eta 0:00:00

Downloading packaging-25.0-py3-none-any.whl (66 kB)

Downloading pandas-2.3.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (12.3 MB)

12.3/12.3 MB 76.8 MB/s eta 0:00:00

Downloading pexpect-4.9.0-py2.py3-none-any.whl (63 kB)

Downloading pillow-11.2.1-cp310-cp310-manylinux_2_28_x86_64.whl (4.6 MB)

4.6/4.6 MB 70.3 MB/s eta 0:00:00

Downloading platformdirs-4.3.8-py3-none-any.whl (18 kB)

Downloading plotly-6.1.2-py3-none-any.whl (16.3 MB)

16.3/16.3 MB 75.5 MB/s eta 0:00:00

Downloading narwhals-1.42.0-py3-none-any.whl (359 kB)

Downloading Ptyprocess-0.7.0-py2.py3-none-any.whl (13 kB)

Downloading pygments-2.19.1-py3-none-any.whl (1.2 MB)

1.2/1.2 MB 124.2 MB/s eta 0:00:00

Downloading pyparsing-3.2.3-py3-none-any.whl (111 kB)

Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl (229 kB)

Downloading pytz-2025.2-py2.py3-none-any.whl (509 kB)

Downloading

PyYAML-6.0.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (751 kB)

751.2/751.2 kB 116.2 MB/s eta 0:00:00

Downloading referencing-0.36.2-py3-none-any.whl (26 kB)

Downloading

rpds_py-0.25.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (386 kB)

Downloading

scikit_learn-1.7.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (12.9 MB)

12.9/12.9 MB 77.4 MB/s eta 0:00:00

Downloading joblib-1.5.1-py3-none-any.whl (307 kB)

Downloading scipy-1.15.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (37.7 MB)

37.7/37.7 MB 78.1 MB/s eta 0:00:00

Downloading six-1.17.0-py2.py3-none-any.whl (11 kB)

Downloading threadpoolctl-3.6.0-py3-none-any.whl (18 kB)

Downloading traitlets-5.14.3-py3-none-any.whl (85 kB)

Downloading typing_extensions-4.14.0-py3-none-any.whl (43 kB)

Downloading tzdata-2025.2-py2.py3-none-any.whl (347 kB)

Downloading addict-2.4.0-py3-none-any.whl (3.8 kB)

Downloading configargparse-1.7.1-py3-none-any.whl (25 kB)

Downloading decorator-5.2.1-py3-none-any.whl (9.2 kB)

Downloading exceptiongroup-1.3.0-py3-none-any.whl (16 kB)

Downloading importlib_metadata-8.7.0-py3-none-any.whl (27 kB)

Downloading zipp-3.23.0-py3-none-any.whl (10 kB)

Downloading matplotlib_inline-0.1.7-py3-none-any.whl (9.9 kB)

Downloading nest_asyncio-1.6.0-py3-none-any.whl (5.2 kB)

Downloading pyquaternion-0.9.9-py3-none-any.whl (14 kB)

Downloading requests-2.32.3-py3-none-any.whl (64 kB)

Downloading

charset_normalizer-3.4.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (149 kB)

Downloading idna-3.10-py3-none-any.whl (70 kB)

Downloading urllib3-2.4.0-py3-none-any.whl (128 kB)

Downloading certifi-2025.4.26-py3-none-any.whl (159 kB)

Downloading retrying-1.3.4-py3-none-any.whl (11 kB)

Downloading stack_data-0.6.3-py3-none-any.whl (24 kB)

Downloading asttokens-3.0.0-py3-none-any.whl (26 kB)
 Downloading executing-2.2.0-py2.py3-none-any.whl (26 kB)
 Downloading pure_eval-0.2.3-py3-none-any.whl (11 kB)
 Downloading tqdm-4.67.1-py3-none-any.whl (78 kB)
 Downloading wcwidth-0.2.13-py2.py3-none-any.whl (34 kB)
 Installing collected packages: wcwidth, pytz, pure-eval, Ptyprocess, fastjsonschema, addict, zipp, widgetsnbextension, urllib3, tzdata, typing-extensions, traitlets, tqdm, threadpoolctl, six, rpds-py, pyyaml, pyparsing, pygments, prompt_toolkit, platformdirs, pillow, pexpect, parso, packaging, numpy, nest-asyncio, narwhals, MarkupSafe, kiwisolver, jupyterlab_widgets, joblib, itsdangerous, idna, fonttools, executing, decorator, cycler, configargparse, click, charset-normalizer, certifi, blinker, attrs, asttokens, werkzeug, stack_data, scipy, retrying, requests, referencing, python-dateutil, pyquaternion, plotly, matplotlib-inline, jupyter-core, Jinja2, jedi, importlib-metadata, exceptiongroup, contourpy, comm, scikit-learn, pandas, matplotlib, jsonschema-specifications, ipython, flask, jsonschema, ipywidgets, dash, nbformat, open3d
 Successfully installed Jinja2-3.1.6 MarkupSafe-3.0.2 addict-2.4.0 asttokens-3.0.0 attrs-25.3.0 blinker-1.9.0 certifi-2025.4.26 charset-normalizer-3.4.2 click-8.2.1 comm-0.2.2 configargparse-1.7.1 contourpy-1.3.2 cycler-0.12.1 dash-3.0.4 decorator-5.2.1 exceptiongroup-1.3.0 executing-2.2.0 fastjsonschema-2.21.1 flask-3.0.3 fonttools-4.58.2 idna-3.10 importlib-metadata-8.7.0 ipython-8.37.0 ipywidgets-8.1.7 itsdangerous-2.2.0 jedi-0.19.2 joblib-1.5.1 jsonschema-4.24.0 jsonschema-specifications-2025.4.1 jupyter-core-5.8.1 jupyterlab_widgets-3.0.15 kiwisolver-1.4.8 matplotlib-3.10.3 matplotlib-inline-0.1.7 narwhals-1.42.0 nbformat-5.10.4 nest-asyncio-1.6.0 numpy-2.2.6 open3d-0.19.0 packaging-25.0 pandas-2.3.0 parso-0.8.4 pexpect-4.9.0 pillow-11.2.1 platformdirs-4.3.8 plotly-6.1.2 prompt_toolkit-3.0.51 Ptyprocess-0.7.0 pure-eval-0.2.3 pygments-2.19.1 pyparsing-3.2.3 pyquaternion-0.9.9 python-dateutil-2.9.0.post0 pytz-2025.2 pyyaml-6.0.2 referencing-0.36.2 requests-2.32.3 retrying-1.3.4 rpds-py-0.25.1 scikit-learn-1.7.0 scipy-1.15.3 six-1.17.0 stack_data-0.6.3 threadpoolctl-3.6.0 tqdm-4.67.1 traitlets-5.14.3 typing-extensions-4.14.0 tzdata-2025.2 urllib3-2.4.0 wcwidth-0.2.13 werkzeug-3.0.6 widgetsnbextension-4.0.14 zipp-3.23.0
 (pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py
 Traceback (most recent call last):
 File "/home/intern/Desktop/pvcnn/load.py", line 2, in <module>
 import torch
 ModuleNotFoundError: No module named 'torch'
 (pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ pip install torch
 Collecting torch
 Downloading torch-2.7.1-cp310-cp310-manylinux_2_28_x86_64.whl.metadata (29 kB)
 Collecting filelock (from torch)
 Using cached filelock-3.18.0-py3-none-any.whl.metadata (2.9 kB)
 Requirement already satisfied: typing-extensions>=4.10.0 in
 /home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from torch) (4.14.0)
 Collecting sympy>=1.13.3 (from torch)
 Using cached sympy-1.14.0-py3-none-any.whl.metadata (12 kB)
 Collecting networkx (from torch)

Downloading networkx-3.4.2-py3-none-any.whl.metadata (6.3 kB)
Requirement already satisfied: jinja2 in
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from torch) (3.1.6)
Collecting fsspec (from torch)
Using cached fsspec-2025.5.1-py3-none-any.whl.metadata (11 kB)
Collecting nvidia-cuda-nvrtc-cu12==12.6.77 (from torch)
Using cached
nvidia_cuda_nvrtc_cu12-12.6.77-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cuda-runtime-cu12==12.6.77 (from torch)
Using cached
nvidia_cuda_runtime_cu12-12.6.77-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cuda-cupti-cu12==12.6.80 (from torch)
Using cached
nvidia_cuda_cupti_cu12-12.6.80-py3-none-manylinux2014_x86_64.whl.metadata (1.6 kB)
Collecting nvidia-cudnn-cu12==9.5.1.17 (from torch)
Using cached nvidia_cudnn_cu12-9.5.1.17-py3-none-manylinux_2_28_x86_64.whl.metadata (1.6 kB)
Collecting nvidia-cublas-cu12==12.6.4.1 (from torch)
Using cached
nvidia_cublas_cu12-12.6.4.1-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cufft-cu12==11.3.0.4 (from torch)
Using cached
nvidia_cufft_cu12-11.3.0.4-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-curand-cu12==10.3.7.77 (from torch)
Using cached
nvidia_curand_cu12-10.3.7.77-py3-none-manylinux2014_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cusolver-cu12==11.7.1.2 (from torch)
Using cached
nvidia_cusolver_cu12-11.7.1.2-py3-none-manylinux2014_x86_64.whl.metadata (1.6 kB)
Collecting nvidia-cusparselt-cu12==0.6.3 (from torch)
Using cached nvidia_cusparselt_cu12-0.6.3-py3-none-manylinux2014_x86_64.whl.metadata (6.8 kB)
Collecting nvidia-nccl-cu12==2.26.2 (from torch)

Using cached
nvidia_nccl_cu12-2.26.2-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (2.0 kB)
Collecting nvidia-nvtx-cu12==12.6.77 (from torch)
Using cached
nvidia_nvtx_cu12-12.6.77-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (1.6 kB)
Collecting nvidia-nvjitlink-cu12==12.6.85 (from torch)
Using cached
nvidia_nvjitlink_cu12-12.6.85-py3-none-manylinux2010_x86_64.manylinux_2_12_x86_64.whl.metadata (1.5 kB)
Collecting nvidia-cufile-cu12==1.11.1.6 (from torch)
Using cached
nvidia_cufile_cu12-1.11.1.6-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (1.5 kB)
Collecting triton==3.3.1 (from torch)
Downloading
triton-3.3.1-cp310-cp310-manylinux_2_27_x86_64.manylinux_2_28_x86_64.whl.metadata (1.5 kB)
Requirement already satisfied: setuptools>=40.8.0 in
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from
triton==3.3.1->torch) (78.1.1)
Collecting mpmath<1.4,>=1.1.0 (from sympy>=1.13.3->torch)
Using cached mpmath-1.3.0-py3-none-any.whl.metadata (8.6 kB)
Requirement already satisfied: MarkupSafe>=2.0 in
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from jinja2->torch)
(3.0.2)
Downloading torch-2.7.1-cp310-cp310-manylinux_2_28_x86_64.whl (821.2 MB)

821.2/821.2 MB 43.7 MB/s eta 0:00:00

Using cached
nvidia_cublas_cu12-12.6.4.1-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (393.1 MB)
Using cached
nvidia_cuda_cupti_cu12-12.6.80-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (8.9 MB)
Using cached nvidia_cuda_nvrtc_cu12-12.6.77-py3-none-manylinux2014_x86_64.whl (23.7 MB)
Using cached
nvidia_cuda_runtime_cu12-12.6.77-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (897 kB)
Using cached nvidia_cudnn_cu12-9.5.1.17-py3-none-manylinux_2_28_x86_64.whl (571.0 MB)

Using cached
nvidia_cufft_cu12-11.3.0.4-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl
(200.2 MB)
Using cached
nvidia_cufile_cu12-1.11.1.6-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl
(1.1 MB)
Using cached
nvidia_curand_cu12-10.3.7.77-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl
(56.3 MB)
Using cached
nvidia_cusolver_cu12-11.7.1.2-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl
(158.2 MB)
Using cached
nvidia_cusparselt_cu12-0.6.3-py3-none-manylinux2014_x86_64.whl (156.8 MB)
Using cached
nvidia_nccl_cu12-2.26.2-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (201.3 MB)
Using cached
nvidia_nvjitlink_cu12-12.6.85-py3-none-manylinux2010_x86_64.manylinux_2_12_x86_64.whl
(19.7 MB)
Using cached
nvidia_nvtx_cu12-12.6.77-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (89 kB)
Downloading triton-3.3.1-cp310-cp310-manylinux_2_27_x86_64.manylinux_2_28_x86_64.whl
(155.6 MB)

155.6/155.6 MB 44.7 MB/s eta 0:00:00
Using cached sympy-1.14.0-py3-none-any.whl (6.3 MB)
Using cached mpmath-1.3.0-py3-none-any.whl (536 kB)
Using cached filelock-3.18.0-py3-none-any.whl (16 kB)
Using cached fsspec-2025.5.1-py3-none-any.whl (199 kB)
Downloading networkx-3.4.2-py3-none-any.whl (1.7 MB)

1.7/1.7 MB 55.4 MB/s eta 0:00:00
Installing collected packages: nvidia-cusparselt-cu12, mpmath, triton, sympy, nvidia-nvtx-cu12, nvidia-nvjitlink-cu12, nvidia-nccl-cu12, nvidia-curand-cu12, nvidia-cufile-cu12, nvidia-cuda-runtime-cu12, nvidia-cuda-nvrtc-cu12, nvidia-cuda-cupti-cu12, nvidia-cublas-cu12, networkx, fsspec, filelock, nvidia-cusparse-cu12, nvidia-cufft-cu12, nvidia-cudnn-cu12, nvidia-cusolver-cu12, torch
Successfully installed filelock-3.18.0 fsspec-2025.5.1 mpmath-1.3.0 networkx-3.4.2 nvidia-cublas-cu12-12.6.4.1 nvidia-cuda-cupti-cu12-12.6.80 nvidia-cuda-nvrtc-cu12-12.6.77 nvidia-cuda-runtime-cu12-12.6.77 nvidia-cudnn-cu12-9.5.1.17 nvidia-cufft-cu12-11.3.0.4

```
nvidia-cufile-cu12-1.11.1.6 nvidia-curand-cu12-10.3.7.77 nvidia-cusolver-cu12-11.7.1.2
nvidia-cusparselt-cu12-0.6.3 nvidia-nccl-cu12-2.26.2
nvidia-nvjitlink-cu12-12.6.85 nvidia-nvtx-cu12-12.6.77 sympy-1.14.0 torch-2.7.1 triton-3.3.1
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python load.py
```

Traceback (most recent call last):

```
File "/home/intern/Desktop/pvcnn/load.py", line 9, in <module>
    from modules import PVConv # Adjust import path if needed
File "/home/intern/Desktop/pvcnn/modules/__init__.py", line 1, in <module>
    from modules.ball_query import BallQuery
File "/home/intern/Desktop/pvcnn/modules/ball_query.py", line 4, in <module>
    import modules.functional as F
File "/home/intern/Desktop/pvcnn/modules/functional/__init__.py", line 1, in <module>
    from modules.functional.ball_query import ball_query
File "/home/intern/Desktop/pvcnn/modules/functional/ball_query.py", line 3, in <module>
    from modules.functional.backend import _backend
File "/home/intern/Desktop/pvcnn/modules/functional/backend.py", line 6, in <module>
    _backend = load(name='_pvcnn_backend',
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensio
n.py", line 1623, in load
    return _jit_compile(
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensio
n.py", line 2076, in _jit_compile
    _write_ninja_file_and_build_library(
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensio
n.py", line 2180, in _write_ninja_file_and_build_library
    verify_ninja_availability()
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensio
n.py", line 2241, in verify_ninja_availability
    raise RuntimeError("Ninja is required to load C++ extensions")
RuntimeError: Ninja is required to load C++ extensions
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ conda install ninja
Channels:
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

Package Plan

environment location: /home/intern/miniconda3/envs/pvcnn_env

added / updated specs:

- ninja

The following NEW packages will be INSTALLED:

ninja	pkgs/main/linux-64::ninja-1.12.1-h06a4308_0
ninja-base	pkgs/main/linux-64::ninja-base-1.12.1-hdb19cb5_0

Proceed ([y]/n)? y

Downloading and Extracting Packages:

Preparing transaction: done

Verifying transaction: done

Executing transaction: done

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py

/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extension.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are included for compilation.

If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].

warnings.warn(

Using device: cuda

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/load.py", line 65, in <module>

main()

File "/home/intern/Desktop/pvcnn/load.py", line 38, in main

raise FileNotFoundError(f'Checkpoint file not found at {checkpoint_path}')

FileNotFoundError: Checkpoint file not found at checkpoints/best_model.pth

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python training.py

/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extension.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are included for compilation.

If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].

warnings.warn(

Extracting dataset from ~/Desktop/pvcnn/data_object_label_2.zip to dataset_extracted...

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/training.py", line 106, in <module>

main()

File "/home/intern/Desktop/pvcnn/training.py", line 55, in main

unzip_dataset(zip_path, extract_to)

```

File "/home/intern/Desktop/pvcnn/training.py", line 17, in unzip_dataset
    with zipfile.ZipFile(zip_path, 'r') as zip_ref:
File "/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/zipfile.py", line 1254, in __init__
    self.fp = io.open(file, filemode)
FileNotFoundError: [Errno 2] No such file or directory:
'~/Desktop/pvcnn/data_object_label_2.zip'
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python training.py
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extension
n.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are
included for compilation.
If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].
    warnings.warn(
Extracting dataset from ~/Downloads/data_object_label_2.zip to dataset_extracted...
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/training.py", line 106, in <module>
    main()
  File "/home/intern/Desktop/pvcnn/training.py", line 55, in main
    unzip_dataset(zip_path, extract_to)
  File "/home/intern/Desktop/pvcnn/training.py", line 17, in unzip_dataset
    with zipfile.ZipFile(zip_path, 'r') as zip_ref:
  File "/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/zipfile.py", line 1254, in __init__
    self.fp = io.open(file, filemode)
FileNotFoundError: [Errno 2] No such file or directory: '~/Downloads/data_object_label_2.zip'
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python training.py
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extension
n.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are
included for compilation.
If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].
    warnings.warn(
Extracting dataset from /home/intern/Downloads/data_object_label_2.zip to dataset_extracted...
Extraction complete.
Using device: cuda
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/training.py", line 106, in <module>
    main()
  File "/home/intern/Desktop/pvcnn/training.py", line 62, in main
    dataset = PointCloudDataset(extract_to)
  File "/home/intern/Desktop/pvcnn/training.py", line 29, in __init__
    self.cloud_files = sorted(os.listdir(self.cloud_dir))
FileNotFoundError: [Errno 2] No such file or directory: 'dataset_extracted/clouds'
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ ls dataset_extracted
training
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py

```

/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensions.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are included for compilation.

If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].

warnings.warn(

Using device: cuda

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 73, in <module>
main()

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 36, in main
raise FileNotFoundError(f'Checkpoint not found: {checkpoint_path}')

FileNotFoundError: Checkpoint not found: checkpoints/best_model.pth

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ mkdir checkpoints

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensions.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are included for compilation.

If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].

warnings.warn(

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 12, in <module>
'model_state_dict': model.state_dict(),

NameError: name 'model' is not defined

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python training2.py

/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/cpp_extensions.py:2356: UserWarning: TORCH_CUDA_ARCH_LIST is not set, all archs for visible cards are included for compilation.

If this is not desired, please set os.environ['TORCH_CUDA_ARCH_LIST'].

warnings.warn(

Using device: cuda

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/training2.py", line 107, in <module>
main()

File "/home/intern/Desktop/pvcnn/training2.py", line 63, in main
dataset = PointCloudDataset(data_dir)

File "/home/intern/Desktop/pvcnn/training2.py", line 13, in __init__
self.cloud_files = sorted(os.listdir(os.path.join(data_dir, "clouds")))

FileNotFoundError: [Errno 2] No such file or directory: 'dataset_extracted/clouds'

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python training2.py

Using device: cuda

No checkpoint found, starting from scratch.

ValueError: could not convert string to float: 'Pedestrian'

The above exception was the direct cause of the following exception:

Traceback (most recent call last):

```
File "/home/intern/Desktop/pvcnn/training2.py", line 82, in <module>
    main()
File "/home/intern/Desktop/pvcnn/training2.py", line 74, in main
    for points, labels in dataloader:
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/data/dataloa
der.py", line 733, in __next__
    data = self._next_data()
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/data/dataloa
der.py", line 789, in _next_data
    data = self._dataset_fetcher.fetch(index) # may raise StopIteration
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/data/_utils/fet
ch.py", line 52, in fetch
    data = [self.dataset[idx] for idx in possibly_batched_index]
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/utils/data/_utils/fet
ch.py", line 52, in <listcomp>
    data = [self.dataset[idx] for idx in possibly_batched_index]
File "/home/intern/Desktop/pvcnn/training2.py", line 33, in __getitem__
    cloud = np.loadtxt(file_path, delimiter=' ')
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/numpy/lib/_npio_impl.
py", line 1395, in loadtxt
    arr = _read(fname, dtype=dtype, comment=comment, delimiter=delimiter,
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/numpy/lib/_npio_impl.
py", line 1046, in _read
    arr = _load_from_filelike(
ValueError: could not convert string 'Pedestrian' to float64 at row 0, column 1.
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python training2.py
Using device: cuda
Epoch 1, Loss: 2.093172079456929
Epoch 2, Loss: 1.196671613966444
Epoch 3, Loss: 1.0175975223138076
Epoch 4, Loss: 0.9706093751367945
Epoch 5, Loss: 0.955856600191936
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python training2.py
Using device: cuda
Epoch 1, Loss: 2.0216
Epoch 2, Loss: 1.1282
```


Epoch 3, Loss: 0.9961

Epoch 4, Loss: 0.9571

Epoch 5, Loss: 0.9502

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python training2.py

Using device: cuda

Epoch 1, Loss: 2.2025

Epoch 2, Loss: 1.1719

Epoch 3, Loss: 0.9992

Epoch 4, Loss: 0.9709

Epoch 5, Loss: 0.9581

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 9

```
def load_model(checkpoint_path, device):
```

```
^
```

IndentationError: expected an indented block after class definition on line 6

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 9

```
def load_model(checkpoint_path, device) :
```

```
^
```

IndentationError: expected an indented block after class definition on line 6

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

Using device: cuda

RPLY: Unable to open file

[Open3D WARNING] Read PLY failed: unable to open file: your_pointcloud.ply

Traceback (most recent call last):

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 103, in <module>

```
main()
```

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 100, in main

```
segment_ply(ply_path, model, device, class_names)
```

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 69, in segment_ply

```
outputs = model(points) # (1, N, num_classes)
```

File

"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1751, in _wrapped_call_impl

```
return self._call_impl(*args, **kwargs)
```

File

"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1762, in _call_impl

```
return forward_call(*args, **kwargs)
```

File "/home/intern/Desktop/pvcnn/segment_ply.py", line 45, in forward

```
x = F.relu(self.bn1(self.conv1(x)))
```

File

"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1751, in _wrapped_call_impl

```

    return self._call_impl(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1762, in _call_impl
    return forward_call(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/conv.py", line 375, in forward
    return self._conv_forward(input, self.weight, self.bias)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/conv.py", line 370, in _conv_forward
    return F.conv1d(
RuntimeError: Calculated padded input size per channel: (0). Kernel size: (1). Kernel size can't
be greater than actual input size
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Unable to open file
[Open3D WARNING] Read PLY failed: unable to open file: zed_out.ply
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 103, in <module>
    main()
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 100, in main
    segment_ply(ply_path, model, device, class_names)
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 69, in segment_ply
    outputs = model(points) # (1, N, num_classes)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1751, in _wrapped_call_impl
    return self._call_impl(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1762, in _call_impl
    return forward_call(*args, **kwargs)
File "/home/intern/Desktop/pvcnn/segment_ply.py", line 45, in forward
    x = F.relu(self.bn1(self.conv1(x)))
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1751, in _wrapped_call_impl
    return self._call_impl(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/module.py", line 1762, in _call_impl
    return forward_call(*args, **kwargs)

```

```

File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/conv.
py", line 375, in forward
    return self._conv_forward(input, self.weight, self.bias)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/conv.
py", line 370, in _conv_forward
    return F.conv1d(
RuntimeError: Calculated padded input size per channel: (0). Kernel size: (1). Kernel size can't
be greater than actual input size
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 103, in <module>
    main()
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 100, in main
    segment_ply(ply_path, model, device, class_names)
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 69, in segment_ply
    outputs = model(points) # (1, N, num_classes)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/modu
le.py", line 1751, in _wrapped_call_impl
    return self._call_impl(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/modu
le.py", line 1762, in _call_impl
    return forward_call(*args, **kwargs)
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 55, in forward
    x = F.relu(self.bn4(self.fc1(x_concat)))
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/modu
le.py", line 1751, in _wrapped_call_impl
    return self._call_impl(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/modu
le.py", line 1762, in _call_impl
    return forward_call(*args, **kwargs)
File
"/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/torch/nn/modules/linear
.py", line 125, in forward
    return F.linear(input, self.weight, self.bias)
RuntimeError: mat1 and mat2 shapes cannot be multiplied (90032x2048 and 1088x512)

```

```
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Segmented 90032 points.
Class 'DontCare' points: 43677
Class 'Misc' points: 46355
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Saved segmented point cloud to: /home/intern/Desktop/zed_out_segmented.ply
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Segmented 90032 points.
Class 'Car' points: 90032
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Saved segmented point cloud to: /home/intern/Desktop/zed_out_segmented.ply
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Segmented 90032 points.
Class 'Cyclist' points: 39628
Class 'Truck' points: 48869
Class 'Misc' points: 1535
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Saved segmented point cloud to: /home/intern/Desktop/zed_out_segmented.ply
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Segmented 90032 points.
Class 'Cyclist' points: 64240
Class 'Car' points: 25792
RPLY: Error reading 'blue' of 'vertex' number 90031
[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply
Saved segmented point cloud to: /home/intern/Desktop/zed_out_segmented.ply
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ ^C
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python read-point_cloud.py
python: can't open file '/home/intern/Desktop/pvcnn/read-point_cloud.py': [Errno 2] No such file
or directory
```

```

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python read_point_cloud.py
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/read_point_cloud.py", line 49, in <module>
    class PlyPointCloudDataset(torch.utils.data.Dataset):
NameError: name 'torch' is not defined
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python read_point_cloud.py
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python load.py
RPLY: Unable to open file
[Open3D WARNING] Read PLY failed: unable to open file:
/home/intern/Desktop/zed_out_segmented.ply.ply
PointCloud with 0 points.
Number of points: 0
[Open3D WARNING] The number of points is 0 when creating axis-aligned bounding box.
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python load.py
RPLY: Unable to open file
[Open3D WARNING] Read PLY failed: unable to open file: /home/intern/Desktop/zed_out.ply.ply
PointCloud with 0 points.
Number of points: 0
[Open3D WARNING] The number of points is 0 when creating axis-aligned bounding box.
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 3, in <module>
    from plyfile import PlyData, PlyElement
ModuleNotFoundError: No module named 'plyfile'
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ pip install plyfile
Collecting plyfile
  Downloading plyfile-1.1.2-py3-none-any.whl.metadata (43 kB)
Requirement already satisfied: numpy>=1.21 in
/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages (from plyfile) (2.2.6)
Downloading plyfile-1.1.2-py3-none-any.whl (36 kB)
Installing collected packages: plyfile
Successfully installed plyfile-1.1.2
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Using device: cuda
Traceback (most recent call last):
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 74, in <module>
    main()
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 49, in main
    points = read_ply_xyz_binary(ply_path)
  File "/home/intern/Desktop/pvcnn/segment_ply.py", line 17, in read_ply_xyz_binary
    plydata = PlyData.read(ply_path)
  File "/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/plyfile.py", line
157, in read
    (must_close, stream) = _open_stream(stream, 'read')

```

File "/home/intern/miniconda3/envs/pvcnn_env/lib/python3.10/site-packages/plyfile.py", line 1347, in _open_stream

return (True, open(stream, read_or_write[0] + 'b'))

FileNotFoundError: [Errno 2] No such file or directory: 'zed_out.ply'

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

Using device: cuda

Loaded 90032 points.

Class 'DontCare' points: 15074

Class 'Pedestrian' points: 14995

Class 'Cyclist' points: 14959

Class 'Car' points: 14949

Class 'Truck' points: 15168

Class 'Misc' points: 14887

Saved segmented point cloud to /home/intern/Desktop/zed_out_segmented.ply

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py

RPLY: Unable to open file

[Open3D WARNING] Read PLY failed: unable to open file:

/home/intern/Desktop/zed_out_segmented.ply.ply

PointCloud with 0 points.

Number of points: 0

[Open3D WARNING] The number of points is 0 when creating axis-aligned bounding box.

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py

RPLY: Error reading 'blue' of 'vertex' number 90031

[Open3D WARNING] Read PLY failed: unable to read file: /home/intern/Desktop/zed_out.ply

Point cloud has 90032 points.

Sample points: [[1.445153 1.940436 -5.218412]

[1.449896 1.939521 -5.215951]

[1.454717 1.938715 -5.213784]

[1.459409 1.937744 -5.211174]

[1.464335 1.93709 -5.209415]]

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py

Loaded 90032 points with colors

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python load.py

Loaded 90032 points with colors

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

Using device: cuda

Error reading PLY file: [Errno 2] No such file or directory: 'zed_out.ply'

(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn\$ python segment_ply.py

Using device: cuda

Loaded 90032 points.

Point distribution by class:

DontCare : 14935 points (16.6%)

Pedestrian : 14979 points (16.6%)

```
Cyclist      : 14869 points (16.5%)
Car          : 15103 points (16.8%)
Truck        : 15013 points (16.7%)
Misc         : 15133 points (16.8%)
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Error reading PLY file: [Errno 2] No such file or directory: 'home/intern/Desktop/zed_out.ply'
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$ python segment_ply.py
Loaded 90032 points
Saved segmented point cloud to /home/intern/Desktop/zed_out_segmented.ply
```

Segmentation Results:

```
-----
DontCare     : 89155 points (99.0%)
Car          : 877 points (1.0%)
(pvcnn_env) intern@dse-MS-7D09:~/Desktop/pvcnn$
```