
Roadcare visulisation

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This documentation is generated for a basic implementation of Neural network from scratch in python for working with MNIST and XOR datasets

Requirements:

1. 4GB RAM
2. External GPU preffered
3. Python3

ADD_INTERMEDIATE_POINTS.PY

```
scripts.add_intermediate_points.bearing_tuple(t1,t2)
scripts.add_intermediate_points.calculateDistance(t1,t2)
scripts.add_intermediate_points.getNextPoint(t1,bearing)
scripts.add_intermediate_points.run()
```


APPLY_SNAPTOROAD_API_ON_POTHOLE.PY

```
scripts.apply_snaptoroad_api_on_pothole.run()
```


BOUNDED_10M_POINTS.PY

```
scripts.bounded_10m_points.run()
```


FILL_OSM_ROADDATA_IN_DB.PY

```
scripts.fill_osm_roaddata_in_db.run()
```


FILL_POTHOLE_DATA_IN_DB.PY

```
scripts.fill_pothole_data_in_db.getRating(data_t)  
scripts.fill_pothole_data_in_db.run()
```


FILL_REFERENCE_POINTS_FOR_NEARESTAPI_IN_DB.PY

```
scripts.fill_reference_points_for_nearestapi_in_db.bearing_tuple(t1,t2)  
scripts.fill_reference_points_for_nearestapi_in_db.run()
```


GET_LAST_7_DAYS_POTHOLE_DATA.PY

```
scripts.get_last_7_days_pothole_data.run()
```


MODELS.PY

```
class scripts.models.RoadData

    multipoint = <django.contrib.gis.db.models.fields.MultiPointField>
    osm_id = <django.db.models.fields.CharField>
    road_len()

class scripts.models.RoadPoint

    bearing = <django.db.models.fields.FloatField>
    point = <django.contrib.gis.db.models.fields.PointField>
    sequence_number = <django.db.models.fields.IntegerField>

class scripts.models.RoadPothole

    bearing = <django.db.models.fields.FloatField>
    point = <django.contrib.gis.db.models.fields.PointField>
    rating = <django.db.models.fields.FloatField>

class scripts.models.RoadPothole_snapped

    bearing = <django.db.models.fields.FloatField>
    point = <django.contrib.gis.db.models.fields.PointField>
    rating = <django.db.models.fields.FloatField>
    total_potholes = <django.db.models.fields.IntegerField>
```

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