**1. Трафик и симуляция**

* **SUMO** (Simulation of Urban Mobility):  
  <https://sumo.dlr.de/docs/index.html>
* **TraCI** (Traffic Control Interface):  
  <https://sumo.dlr.de/docs/TraCI.html>
* **OSMnx**:  
  <https://osmnx.readthedocs.io/>
* **NetworkX**:  
  <https://networkx.org/documentation/stable/>
* **SUMO-RL**:  
  <https://github.com/LucasAlegre/sumo-rl>

**2. Энергопотребление**

* **PyPSA**:  
  <https://pypsa.readthedocs.io/>
* **Pandapower**:  
  <https://pandapower.readthedocs.io/>
* **CVXPY**:  
  <https://www.cvxpy.org/>
* **Pyomo**:  
  <http://www.pyomo.org/>

**3. Геоанализ и маршрутизация**

* **GeoPandas**:  
  <https://geopandas.org/>
* **Shapely**:  
  <https://shapely.readthedocs.io/>
* **OR-Tools**:  
  <https://developers.google.com/optimization>

**4. Анализ текста (NLP)**

* **spaCy**:  
  <https://spacy.io/usage>
* **Hugging Face Transformers**:  
  <https://huggingface.co/docs/transformers/>
* **scikit-learn**:  
  <https://scikit-learn.org/stable/documentation.html>
* **Gensim**:  
  <https://radimrehurek.com/gensim/>
* **BERTopic**:  
  <https://maartengr.github.io/BERTopic/>
* **fastText**:  
  <https://fasttext.cc/>

**5. Веб-API и координация**

* **FastAPI**:  
  <https://fastapi.tiangolo.com/>
* **Flask**:  
  <https://flask.palletsprojects.com/>
* **PostGIS**:  
  <https://postgis.net/documentation/>
* **Paho-MQTT**:  
  <https://www.eclipse.org/paho/clients/python/>
* **Redis Pub/Sub**:  
  <https://redis.io/docs/latest/develop/use/pubsub/>
* **Celery**:  
  <https://docs.celeryq.dev/>

**6. Прогнозирование и ML**

* **Prophet**:  
  <https://facebook.github.io/prophet/>
* **Statsmodels**:  
  <https://www.statsmodels.org/stable/index.html>
* **XGBoost**:  
  <https://xgboost.readthedocs.io/>
* **PyTorch**:  
  <https://pytorch.org/docs/>
* **TensorFlow**:  
  <https://www.tensorflow.org/api_docs>
* **PyOD**:  
  <https://pyod.readthedocs.io/>
* **Alibi-Detect**:  
  <https://docs.seldon.io/projects/alibi-detect/>

**7. Конвейеры данных**

* **Dagster**:  
  <https://docs.dagster.io/>
* **Prefect**:  
  <https://docs.prefect.io/>
* **Apache Airflow**:  
  <https://airflow.apache.org/docs/>
* **Apache Kafka**:  
  <https://kafka.apache.org/documentation/>
* **Redpanda**:  
  <https://docs.redpanda.com/>
* **PySpark**:  
  <https://spark.apache.org/docs/latest/api/python/>
* **Dask**:  
  <https://docs.dask.org/>
* **Great Expectations**:  
  <https://greatexpectations.io/docs/>

**8. Визуализация**

* **Dash (Plotly)**:  
  <https://dash.plotly.com/>
* **Streamlit**:  
  <https://docs.streamlit.io/>
* **Panel**:  
  <https://panel.holoviz.org/>
* [**Kepler.gl**](https://Kepler.gl)**/ Pydeck**:  
  <https://deck.gl/docs>
* **Folium**:  
  <https://python-visualization.github.io/folium/>

**9. Безопасность и DevOps**

* **Authlib**:  
  <https://docs.authlib.org/>
* **FastAPI Security**:  
  <https://fastapi.tiangolo.com/advanced/security/>
* **Sentry**:  
  <https://docs.sentry.io/>
* **Docker**:  
  <https://docs.docker.com/>
* **Kubernetes**:  
  <https://kubernetes.io/docs/home/>
* **Terraform**:  
  <https://www.terraform.io/docs>
* **GitHub Actions**:  
  <https://docs.github.com/en/actions>