Open Source Libraries for Privacy Beginners

There are several available open-source deidentification libraries that can be accessed for use with this program, including the following:

- **OpenDP Library**
- **R Synthpop Library**
- **Tumult Analytics Open-Source Library**
- **The Synthetic Data Vault**
- **Synthetic Minority Oversampling Technique (SMOTE)**
- **Non-Parametric Bayesian Multiple Imputation for Categorical Data (NPBayesImputeCat Library)**

Reference Links

1. **Open DP Library**
   - **Location:** https://github.com/opendp/opendp
   - **Installation:** https://github.com/opendp/opendp#installation
   - **Documentation:** https://docs.opendp.org
2. **R Synthpop Library**
   - **Location:** https://www.synthpop.org.uk/get-started.html
   - **Installation:** https://www.synthpop.org.uk/get-started.html#installation
   - **Documentation:** https://www.synthpop.org.uk/resources.html
3. **Tumult Analytics Open-Source Library**
   - **Location:** https://docs.tmlt.dev/analytics/latest/index.html
   - **Installation:** https://docs.tmlt.dev/analytics/latest/installation.html
   - **Documentation:** https://docs.tmlt.dev/analytics/latest/tutorials/index.html
4. **The Synthetic Data Vault**
   - **Location:** https://sdv.dev/SDV/
   - **Installation:** https://sdv.dev/SDV/getting_started/install.html
   - **Documentation:** https://sdv.dev/SDV/user_guides/index.html
5. **SMOTE**
   - **Location:** https://imbalanced-learn.org/stable/references/generated/imblearn.over_sampling.SMOTE.html
   - **Installation:** https://imbalanced-learn.org/stable/install.html
   - **Documentation:** https://imbalanced-learn.org/stable/user_guide.html
6. **NPBayesImputeCat Library**
   - **Location:** https://CRAN.R-project.org/package=NPBayesImputeCat
   - **Installation:** https://cran.r-project.org/src/contrib/NPBayesImputeCat_0.5.tar.gz
   - **Documentation:** https://cran.r-project.org/web/packages/NPBayesImputeCat/NPBayesImputeCat.pdf