Python libraries are ready-made code that developers can use to add specific functionalities to their programs without starting from scratch.

Some Popular Python Libraries Across Different Domains:

1. Data Science and Machine Learning:

- NumPy: Numerical computing with arrays and matrices.
- pandas: Data manipulation and analysis.
- scikit-learn: Machine learning algorithms and tools.
- TensorFlow and PyTorch: Deep learning frameworks.
- statsmodels: Statistical modeling and hypothesis testing.

2. Visualization and Plotting:

- Matplotlib: Data visualization library.
- Seaborn: Built on top of Matplotlib for enhanced data visualization.
- Plotly: Interactive and web-based data visualization.
- Bokeh: Interactive visualizations for web browsers.

3. Web Development:

- Django and Flask: Web development frameworks.
- FastAPI: Modern, fast web framework for building APIs.

- Beautiful Soup and Scrapy: Web scraping and data extraction.

4. Natural Language Processing (NLP):

- NLTK: Natural Language Toolkit for NLP.
- SpaCy: Industrial-strength NLP library.
- Gensim: Topic modeling and document similarity.

5. Database Interaction:

- SQLAlchemy: SQL toolkit and Object-Relational Mapping (ORM) library.
- pymysql and psycopg2: Python interfaces for MySQL and PostgreSQL databases.

6. GUI Development:

- Tkinter: Standard GUI library included with Python.
- PyQt and wxPython: Cross-platform GUI libraries.

7. Scientific Computing:

- SciPy: Scientific computing library built on top of NumPy.
- SymPy: Symbolic mathematics library.

8. Game Development:

- Pygame: Game development library.
- Godot Engine: Game engine with Python scripting support.

9. Network and Web Services:

- Requests: HTTP library for making web requests.
- Tornado and Twisted: Asynchronous networking libraries.

10. Cybersecurity:

- Scapy: Packet manipulation tool for network security.
- Paramiko: SSH protocol implementation for secure connections.

11. Data Analysis and Visualization:

- RethinkDB: Real-time database designed for web and real-time applications.
- Apache Cassandra: Distributed NoSQL database for handling large amounts of data.

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