🖥️ ML Environment Setup Tutorial

To contribute to any ML project, you must set up your environment with access to our internal services.

📣 Please communicate with your administrator.

To use all the tools you will need

- Access to our organisational Github
- VPN credentials for acces to the server
- MLFlow credentials for access to the unified MLFlow website
- Server credentials for DVC usage

🔗 Connect to GitHub, Create your branch, Start working

```
git clone ghttps://github.com/MindwiseLLC/Your-Project-Name.git
cd project
git checkout -b feature/your-branch
```

📊 Use MLflow for Unified Experiment Tracking

Receive VPN credentials from you administrator.

Receive MLFlow credentials from you administrator.

> MLflow is already running on our server: `http://mlflow.daniam.am`

Set tracking URI:

```
import mlflow
mlflow.set_tracking_uri("http://mlflow.daniam.am")
mlflow.set_experiment("product-matching")
```

Find detailed Mlflow tutorial and workflow here.

📦 Use DVC with Internal Remote

DVC is pre-configured on the server.

You will use following address to as your remote.

```
ssh://aiml@192.168.150.222:/mnt/sdd/git_data/dvc_storage
```

Find detailed DVC tutorial and workflow here.

🧾 Edit and Build Documentation Locally

```
pip install mkdocs
mkdocs new my-project
cd my-project
```

Edit `docs/` markdown files, then:

```
mkdocs serve  # preview at http://127.0.0.1:8000
```

Find our how to add your local documentation to our Unified Documentation system here

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🧪 Your First Experiment Checklist

- Create a new Git branch: `experiment/lstm-v1` or new github repository
- Run your experiment, track wiht internal MLflow
- Add data via DVC
- Commit everything to GitHub with references to MLflow run ID
- Create/update related documentation (manuals or technical)
- Add your local docs to Unified Documentation Hub

📌 **Remember:** No result exists until it is reproducible via:

- A Git commit
- MLflow run ID
- DVC-tracked dataset
- Documentation