**🐍 Create Conda Environment - Step by Step**

**Step 1: Check Conda Installation**

conda --version

If conda is not installed, download from: https://docs.conda.io/en/latest/miniconda.html

**Step 2: Create New Conda Environment**

# Create environment with Python 3.10 (stable and compatible)

conda create -n hr\_qna\_poc python=3.10 -y

**Step 3: Activate the Environment**

# Activate the environment

conda activate hr\_qna\_poc

# Verify activation (should show hr\_qna\_poc in prompt)

which python

python --version

**Step 4: Install Core Dependencies via Conda**

# Install commonly used packages via conda (faster and more stable)

conda install -c conda-forge pandas numpy python-dotenv -y

**Step 5: Install Remaining Dependencies via Pip**

# Install Azure and OpenAI specific packages via pip

pip install motor==3.3.2

pip install azure-search-documents==11.4.0

pip install openai==1.3.8

pip install fastapi==0.104.1

pip install uvicorn==0.24.0

pip install pydantic==2.5.0

pip install pydantic-settings==2.1.0

pip install pytest==7.4.3

pip install rich==13.7.0

pip install aiofiles==23.2.1

pip install python-dateutil==2.8.2

pip install git+https://github.com/aquariumbio/pydent.git

**Step 6: Create requirements.txt (for reproducibility)**

# Generate requirements file

pip freeze > requirements.txt

**Step 7: Verify Installation**

# Test key imports

python -c "import motor; import pandas; import openai; print('✅ All imports successful')"

**Step 8: Configure VS Code (Optional)**

# In VS Code:

# 1. Ctrl+Shift+P → "Python: Select Interpreter"

# 2. Choose the conda environment: ~/anaconda3/envs/hr\_qna\_poc/bin/python

**Environment Management Commands**

# Activate environment

conda activate hr\_qna\_poc

# Deactivate environment

conda deactivate

# List all environments

conda env list

# Remove environment (if needed)

conda env remove -n hr\_qna\_poc

**Your Environment Details:**

Environment Name: hr\_qna\_poc

Python Version: 3.10.x (stable LTS version)

Package Manager: conda + pip hybrid approach

Location: ~/anaconda3/envs/hr\_qna\_poc/

**Complete these steps and let me know:**

1. ✅ Environment created successfully?
2. ✅ All packages installed without errors?
3. ✅ Python imports test passed?

**Once confirmed, we'll continue with the .env configuration!** 🚀