Welcome to Johnson & Johnson Python Academy

Transforming Healthcare & Pharmaceutical Professionals into Big Data Engineers

Course Overview

Course Name: Welcome to J&J Python Academy

Duration: Self-paced (2-3 hours)

Target Audience: Clinical Programming staff (J&J and vendors)

Mission: Support the upskilling of 200+ Clinical Programming professionals through comprehensive training that integrates with J&J LMS system.

Learning Objectives

By the end of this module, you will:

- Understand the J&J Python Academy mission and structure
- Navigate the learning platform effectively
- Know your role-specific learning path
- Connect with your cohort and instructors

🏗 Your Learning Ecosystem

📚 **Moodle LMS** (http://localhost:8081/) - Enterprise-grade course management

🖥 **JupyterHub** (http://localhost:8080/jupyter/) - Interactive notebook environment

Bitbucket (http://localhost:7990/) - Version control and collaboration

MLflow (http://localhost:5000/) - Machine learning experiment tracking

⚡ **ML API** (http://localhost:8001/) - Model deployment and testing

🚂 Role-Specific Learning Tracks

Track 1: Junior Clinical Programmer

- Python Fundamentals (20 hours)
- Basic Data Manipulation with Pandas (15 hours)

- Introduction to Clinical Data Standards (10 hours)

Track 2: Senior Clinical Programmer

- Advanced Python Programming (25 hours)
- Statistical Analysis with Python (20 hours)
- Automation and Scripting (15 hours)

Track 3: Lead Clinical Programmer

- System Architecture Design (30 hours)
- Team Leadership in Data Projects (15 hours)
- Advanced MLflow and Model Deployment (20 hours)

✅ Getting Started

Prerequisites Checklist

- ☐ Platform access verified
- ☐ JupyterHub login successful
- ☐ First notebook created
- ☐ Bitbucket account connected
- ☐ Welcome survey completed

🎓 Your First Assignment

1. Complete the "Platform Familiarization" quiz
2. Create your first Jupyter notebook with a "Hello, J&J Python Academy!" cell
3. Introduce yourself in the course forum
4. Schedule your initial mentor meeting

Community & Support

Connect with Your Cohort:

- Course discussion forums
- Weekly virtual coffee sessions
- Peer programming sessions
- Project collaboration groups

Support Resources:

- **Technical Support:** Platform issues and troubleshooting
- **Academic Support:** Course content and learning assistance

- **Mentorship Program:** One-on-one guidance
- **Office Hours:** Live Q&A sessions with instructors

🏆 Certification Path

- **Foundation Certificate:** Complete Welcome & Orientation
- **Intermediate Certificate:** Complete role-specific track
- **Advanced Certificate:** Complete capstone project
- **J&J Clinical Data Engineer Certification:** Full program completion

Next Steps

After completing this Welcome course, you'll proceed to:

1. **Core Python Fundamentals** - Building your programming foundation
2. **Healthcare Data with Pandas** - Working with clinical datasets
3. **Your chosen specialization track** - Based on your role and interests

Ready to Transform Your Career?

From Clinical Programming Analyst → Advanced Healthcare Data Engineer

Johnson & Johnson Python Academy - Advancing Healthcare Through Data Excellence

Questions? Contact us at python-academy@jnj.com