

# From jupyter execute to Production

Mawatari Daiki

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# 1. Introduction

**Daiki Mawatari, GENDA**

AI agents × Databricks notebooks

## 2. The Vision

**What you'll take away:**

- AI agents executing Databricks notebooks from CLI
- Practical patterns from production
- Open source tool available today

### 3. The Solution

My Project: <https://github.com/i9wa4/jupyter-databricks-kernel>

- CLI notebook execution
- Remote execution on Databricks
- AI assistant integration
- Autonomous iteration

## 4. Demo Environment

My Project: <https://github.com/i9wa4/databricks-ai-starter> on GitHub Codespaces

**Prompt:** > Describe the schema of samples.nyctaxi.trips, then create and execute a notebook with one histogram of trip distances.

# 5. CLI Execution Example

For example:

```
$ jupyter execute demo_nyctaxi.ipynb --kernel_name=databricks
```

# 6. Complete Remote Execution

All code runs on Databricks, not locally

- Databricks Runtime libraries available
- No local environment setup
- Independent agent iteration

# 7. Reviewing Results

Notebook execution completes with visualizations and analysis outputs.

## 8. Why This Matters

- **Credible:** Production use at GENDA
- **Useful:** Open source, available today
- **Timely:** Autonomous AI agents

# 9. Development Workflow

**Dev = Production runtime**

Deploy via Databricks Asset Bundles

# 10. Get Started

My Project: <https://github.com/i9wa4/jupyter-databricks-kernel>

Thank you.