

!nvidia-smi

Sat Aug 2 05:22:35 2025

NVIDIA-SMI 550.54.15			Driver Version: 550.54.15			CUDA Version: 12.4		
GPU	Name		Persistence-M	Bus-Id	Disp.A	Volatile	Uncorr.	ECC
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Processes:								
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No running processes found								

```
from openai import OpenAI

client = OpenAI(
    base_url="https://openrouter.ai/api/v1",
    api_key="enter you own api key"
)

completion = client.chat.completions.create(
    extra_headers={
        "HTTP-Referer": "<YOUR_SITE_URL>", # Optional. Site URL for rankings on openrouter.ai.
        "X-Title": "<YOUR_SITE_NAME>", # Optional. Site title for rankings on openrouter.ai.
    },
    extra_body={},
    model="deepseek/deepseek-r1:free",
    messages=[
        {
            "role": "user",
            "content": "how non technical learner transit towards datascience?"
        }
    ]
)
print(completion.choices[0].message.content)
```

➡ Transitioning into data science from a non-technical background is challenging but achievable with a structured approach. Here's a s

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### 1. **Build Foundational Knowledge**
- **Understand Data Science**: Learn what data science entails—data cleaning, analysis, visualization, statistics, and machine le
- **Brush Up on Math**: Focus on statistics (descriptive/inferential stats, hypothesis testing) and basic linear algebra. Use Kh

### 2. **Learn Core Tools & Programming**
- **Start with Python or R**:
  - Python is beginner-friendly. Begin with free resources like Codecademy, Automate the Boring Stuff, or Coursera's *Python for
  - Learn libraries like pandas (data manipulation), NumPy (numerical computing), and matplotlib/seaborn (visualization).
- **SQL**: Master querying databases via courses like SQLZoo or Mode Analytics' SQL Tutorial.
- **Tools**: Get comfortable with Jupyter Notebooks, Excel/Google Sheets, and GitHub for version control.

### 3. **Data Analysis & Visualization**
- Practice data cleaning and storytelling with Tableau (free public version) or Power BI. Kaggle datasets and **MakeoverMonday**

### 4. **Begin Machine Learning (ML)**
- Start with introductory ML concepts (supervised/unsupervised learning) via Andrew Ng's Coursera ML course or *Hands-On Machine

### 5. **Build a Portfolio**
- **Projects**: Solve real-world problems using datasets from Kaggle, UCI Repository, or government portals. Examples:
  - Analyze COVID-19 trends.
  - Predict housing prices using regression.
  - Create a dashboard for retail sales data.
- **Document Work**: Showcase projects on GitHub, a personal blog (WordPress/Medium), or a portfolio site (e.g., GitHub Pages).

### 6. **Network & Gain Experience**
- **Join Communities**: Engage in Reddit's r/datascience, LinkedIn groups, or local meetups (Meetup.com).
- **Volunteer/Intern**: Offer data analysis services to non-profits (Catchafire, DataKind) or apply for internships to gain pract

### 7. **Prepare for Jobs**
- **Tailor Your Resume**: Emphasize transferable skills (analytical thinking, communication) and quantify project impact.
- **Apply Strategically**: Target entry-level roles like Data Analyst, Business Analyst, or Junior Data Scientist. Highlight port

### 8. **Stay Curious & Perpetually Learning**
- **Continuous Learning**: What can I help you build? (ic), or YouTube channels (StatQue
- **Soft Skills**: Practicing on data storytelling (e.g., Storyte

### Example Learning Path:
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1. **Months 1-3**: Python basics + statistics + pandas. Build simple projects (e.g., analyzing Netflix data).
2. **Months 4-6**: SQL + Tableau. Create dashboards and contribute to Kaggle competitions.
3. **Months 7-9**: ML fundamentals + scikit-learn. Deploy models using Streamlit/Flask.
4. **Months 10-12**: Refine portfolio, network, and apply for roles.

Key Resources:

- **Courses**: Coursera, DataCamp, freeCodeCamp.
- **Books**: "Python Crash Course", "The Elements of Statistical Learning" (advanced).
- **Tools**: Anaconda, Kaggle Kernels, Google Colab.

Mindset Tips:

- **Embrace Failure**: Errors are part of learning—debugging builds resilience.
- **Track Progress**: Celebrate small wins to stay motivated.

By breaking the journey into manageable steps and staying consistent, you'll bridge the gap from non-technical to data science professional.

Start coding or [generate](#) with AI.

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