💼 AI Resume Analyzer with NLP

A smart, AI-powered web application that analyzes resumes and provides personalized career recommendations using Natural Language Processing (NLP), resume parsing, and machine learning.

🔍 Features

- 👤 **User & Admin Dashboard**
- 📄 **Resume Parsing** using NLP (`pyresparser`, `pdfminer`)
- 🎨 **AI-Based Resume Scoring**
- 💼 **Career Field Prediction**
- 🗂 **Skill & Course Recommendations**
- 🎥 **YouTube Video Suggestions**
- ✍ **Resume Writing Tips**
- 📊 **Admin Visual Analytics with Plotly**
- 🗂 Resume Upload & History Tracking

⚒ Tech Stack

- **Frontend:** Streamlit
- **Backend:** Python
- **Database:** MySQL (via XAMPP)
- **Libraries:** `pyresparser`, `pdfminer3`, `streamlit-tags`, `pafy`, `nltk`, `spacy`, `plotly`, `pymysql`

📦 Setup Instructions

🔧 1. Clone the Repository

```
git clone https://github.com/yourusername/ai-resume-analyzer.git
cd ai-resume-analyzer
```

🗂 2. Install Dependencies

Make sure you are using **Python 3.7 or 3.8** for compatibility.

```
pip install -r requirements.txt
pip install nltk
pip install spacy==2.3.5
pip install https://github.com/explosion/spacy-
models/releases/download/en_core_web_sm-2.3.1/en_core_web_sm-2.3.1.tar.gz
```

⚒ 3. Configure Database

1. **Download and start XAMPP** or any local MySQL server.
2. Start both **Apache** and **MySQL** from the control panel.
3. Ensure your MySQL connection credentials are correct in `App.py`:

```python
mydb = mysql.connector.connect(
    host="localhost",
    user="your_username",
    password="your_password",
    database="your_database"
)
```

🚀 4. Run the Application

Open your terminal and run:

```
streamlit run App.py
```