AI LAKERS Markdown Cheat Sheet
Lists
Unordered List:
- Part 1: Co-authorship Graph
- Part 2: Sudoku AI Solver
- Part 3: Traffic Sign Classifier
Ordered List:
1. Load Data
2. Build Graph
3. Find Path
Links
[Markdown Guide](https://www.markdownguide.org)
Images
![Confusion Matrix](confusion_matrix.png)
Code
Inline Code:
Use `pd.read_csv()` to read files.
Code Block (Python):
```python
def load_data(file):
return pd.read_csv(file)
***
Blockquotes
> This project uses BFS to find the shortest path in a co-authorship network.
Tables

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Component   Library   Purpose
Co-author   pandas   Load and process CSV data
Sudoku   AC-3, MRV   Solve constraint satisfaction
Classifier   TensorFlow   CNN for image classification
Task Lists
- [x] Load data from CSV
- [x] Build graph
- [ ] Implement GUI (optional)
Horizontal Rule
File Structure Example
project/
part1_coauthors.py
part2_sudoku_ai.py
part3_traffic_signs.py
authors.csv
papers.csv
scientists.csv
README.md
Example Section for README.md
# AI LAKERS
This project includes:
- **Part 1:** Finding the shortest co-authorship path between scientists using BFS.
- **Part 2:** Solving Sudoku puzzles using constraint satisfaction (AC-3, MRV, LCV).
- **Part 3:** Classifying traffic signs using a CNN built with TensorFlow and OpenCN

## How to Run

```
"bash

python part1_coauthors.py

python part2_sudoku_ai.py

python part3_traffic_signs.py gtsrb_directory [model.h5]
""
## Sample Output
> "3 degrees of separation between Alan Turing and Grace Hopper."
```