

# DETAILED GRADE BREAKDOWN

## Assignment 2

Student ID: 48961

Repository: Assignment2\_LSTM\_extracting\_frequencies

Assessment Date: 2025-12-02

FINAL SCORE: 87.5 / 100

Performance Tier: Good

## Skills Summary

| Skill              | Score   | Status      |
|--------------------|---------|-------------|
| Ui Ux              | 10.0/10 | ✓ Excellent |
| Project Planning   | 5.0/10  | ■ Fair      |
| Extensibility      | 7.0/10  | ✓ Good      |
| Research Analysis  | 10.0/10 | ✓ Excellent |
| Testing Quality    | 10.0/10 | ✓ Excellent |
| Quality Standards  | 10.0/10 | ✓ Excellent |
| Version Management | 10.0/10 | ✓ Excellent |
| Code Documentation | 10.0/10 | ✓ Excellent |
| Config Security    | 6.0/10  | ✓ Good      |
| Costs Pricing      | 9.5/10  | ✓ Excellent |

# Skill: Ui Ux

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion               | Max Points  | Earned      | Status |
|-------------------------|-------------|-------------|--------|
| Screenshots/images (1+) | 3.0         | 3.0         | ✓      |
| Screenshots/images (5+) | 3.0         | 3.0         | ✓      |
| UI documentation        | 2.0         | 2.0         | ✓      |
| User guide exists       | 2.0         | 2.0         | ✓      |
| <b>TOTAL</b>            | <b>10.0</b> | <b>10.0</b> |        |

## What Was Found

- Found 15 image(s)/screenshot(s)
- Excellent visual documentation with 5+ images
- UI documentation found: requirements-dev.txt, requirements.txt, docs\development\QUICK\_FIX\_SUMMARY.md

## What Was Missing

- All criteria met!

# Skill: Project Planning

Score: 5.0/10 points

Status: ■ Fair

## Points Breakdown

| Criterion               | Max Points  | Earned     | Status |
|-------------------------|-------------|------------|--------|
| PRD.md exists           | 2.0         | 0.0        | ✗      |
| ARCHITECTURE.md exists  | 5.0         | 5.0        | ✓      |
| Problem Statement       | 1.0         | 0.5        | ✗      |
| Functional Requirements | 1.5         | 0.8        | ✗      |
| Success Metrics         | 0.5         | 0.2        | ✗      |
| <b>TOTAL</b>            | <b>10.0</b> | <b>5.0</b> |        |

## What Was Found

- ARCHITECTURE.md found

## What Was Missing

- All criteria met!

## How to Improve (+5.0 points)

1. Create PRD.md with Problem Statement, Functional Requirements, and Success Metrics (+4.0 points)

# Skill: Extensibility

Score: 7.0/10 points

Status: ✓ Good

## Points Breakdown

| Criterion                   | Max Points  | Earned     | Status |
|-----------------------------|-------------|------------|--------|
| Plugin/extension system     | 3.0         | 2.1        | ✗      |
| Modular structure (3+ dirs) | 3.0         | 2.1        | ✗      |
| Interfaces/APIs             | 2.0         | 1.4        | ✗      |
| Extension documentation     | 2.0         | 1.4        | ✗      |
| <b>TOTAL</b>                | <b>10.0</b> | <b>7.0</b> |        |

## What Was Found

- Plugin/extension system found: .

## What Was Missing

- All criteria met!

## How to Improve (+3.0 points)

1. Refactor into modular structure with smaller files (+3.0 points)

# Skill: Research Analysis

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion                | Max Points  | Earned      | Status |
|--------------------------|-------------|-------------|--------|
| Jupyter notebooks exist  | 4.0         | 4.0         | ✓      |
| Multiple notebooks (>2)  | 2.0         | 2.0         | ✓      |
| Has visualizations/plots | 2.0         | 2.0         | ✓      |
| Analysis documentation   | 2.0         | 2.0         | ✓      |
| <b>TOTAL</b>             | <b>10.0</b> | <b>10.0</b> |        |

## What Was Found

- Found 77 research document(s)
- Found 1 data file(s) for analysis

## What Was Missing

- All criteria met!

# Skill: Testing Quality

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion                 | Max Points  | Earned      | Status |
|---------------------------|-------------|-------------|--------|
| Test files exist          | 3.0         | 3.0         | ✓      |
| Multiple test files (>3)  | 2.0         | 2.0         | ✓      |
| Test framework configured | 2.0         | 2.0         | ✓      |
| Test functions (>10)      | 3.0         | 3.0         | ✓      |
| <b>TOTAL</b>              | <b>10.0</b> | <b>10.0</b> |        |

## What Was Found

- Found 15 test file(s)

## What Was Missing

- All criteria met!

# Skill: Quality Standards

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion             | Max Points  | Earned      | Status |
|-----------------------|-------------|-------------|--------|
| Linting configuration | 2.0         | 2.0         | ✓      |
| CI/CD pipeline        | 3.0         | 3.0         | ✓      |
| Code style guide      | 2.0         | 2.0         | ✓      |
| Pre-commit hooks      | 2.0         | 2.0         | ✓      |
| Project setup file    | 1.0         | 1.0         | ✓      |
| <b>TOTAL</b>          | <b>10.0</b> | <b>10.0</b> |        |

## What Was Found

- Code style guide found: CODE\_OF\_CONDUCT.md, CONTRIBUTING.md

## What Was Missing

- All criteria met!

# Skill: Version Management

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion                  | Max Points | Earned | Status |
|----------------------------|------------|--------|--------|
| Git commits >10            | 2.0        | 2.0    | ✓      |
| Meaningful commit messages | 2.0        | 2.0    | ✓      |
| PROMPT_BOOK.md exists      | 5.0        | 5.0    | ✓      |
| Branching strategy         | 1.0        | 1.0    | ✓      |
| TOTAL                      | 10.0       | 10.0   |        |

## What Was Found

- Prompt documentation found: docs\development\DEVELOPMENT\_PROMPTS\_LOG.md

## What Was Missing

- All criteria met!



# Skill: Code Documentation

Score: 10.0/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion                 | Max Points  | Earned      | Status |
|---------------------------|-------------|-------------|--------|
| README.md >1KB            | 3.0         | 3.0         | ✓      |
| Installation instructions | 1.0         | 1.0         | ✓      |
| Usage examples            | 1.0         | 1.0         | ✓      |
| Code structure documented | 2.0         | 2.0         | ✓      |
| Python docstrings (>50%)  | 3.0         | 3.0         | ✓      |
| <b>TOTAL</b>              | <b>10.0</b> | <b>10.0</b> |        |

## What Was Found

- README.md found (60694 bytes)
- Installation instructions found in README
- Usage examples found in README
- docs/ directory found
- Package \_\_init\_\_.py with documentation found

## What Was Missing

- All criteria met!

# Skill: Config Security

Score: 6.0/10 points

Status: ✓ Good

## Points Breakdown

| Criterion                       | Max Points | Earned | Status |
|---------------------------------|------------|--------|--------|
| No hardcoded secrets (CRITICAL) | 5.0        | 3.0    | ✗      |
| .env.example exists             | 2.0        | 1.2    | ✗      |
| .gitignore exists               | 1.0        | 0.6    | ✗      |
| Uses environment variables      | 2.0        | 1.2    | ✗      |
| TOTAL                           | 10.0       | 6.0    |        |

### What Was Found

- No hardcoded secrets found in production code
- .gitignore file found with .env properly ignored

### What Was Missing

- No hardcoded secrets found in production code

### How to Improve (+4.0 points)

1. Create .env.example file to document required environment variables (+2.0 points)
2. Implement environment variable usage in code (+1.0 point)
3. Improve overall security practices (+1.0 point)

# Skill: Costs Pricing

Score: 9.5/10 points

Status: ✓ Excellent

## Points Breakdown

| Criterion              | Max Points | Earned | Status |
|------------------------|------------|--------|--------|
| Cost analysis document | 5.0        | 4.8    | ✗      |
| Cost mentions in docs  | 3.0        | 2.8    | ✗      |
| Budget tracking        | 2.0        | 1.9    | ✗      |
| TOTAL                  | 10.0       | 9.5    |        |

## What Was Found

- Multiple cost documents found (6): docs\guides\COST\_ANALYSIS\_GUIDE.md, docs\innovations\COST\_ANALYSIS\_CHECKLIST.md
- Cost calculations found in code
- API pricing analysis found (excellent for LLM projects)

## What Was Missing

- All criteria met!

## How to Improve (+0.5 points)

1. Create dedicated budget tracking document (+0.5 points)

# Overall Assessment Summary

## Key Strengths (8+ points)

- Ui Ux: 10.0/10
- Research Analysis: 10.0/10
- Testing Quality: 10.0/10
- Quality Standards: 10.0/10
- Version Management: 10.0/10
- Code Documentation: 10.0/10
- Costs Pricing: 9.5/10

## Critical Gaps (<5 points)

- No critical gaps identified

## Recommended Actions

### Immediate Priority:

- All critical areas addressed - focus on optimization

### High Priority:

- Maintain current standards across all skills