Artificial Neural Networks Laboratory

Experiment No. 1

Installation and Configuration of Cursor IDE

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Course Code:	COMP-341L
Submission Date:	January 26, 2026

1 Objective

The objective of this experiment is to prepare a working development environment by installing and configuring Cursor IDE for use in Artificial Neural Networks laboratory sessions.

2 Introduction

Cursor IDE is an advanced programming editor developed on top of Visual Studio Code. It integrates artificial intelligence tools that assist programmers during coding, debugging, and experimentation, which makes it suitable for machine learning and neural network applications.

3 System Requirements

- macOS, Windows, or Linux operating system

- Internet connectivity

- Administrator privileges

- Minimum 4 GB RAM

4 Downloading Cursor IDE

The Cursor installer was obtained from the official website by selecting the appropriate version for the operating system.
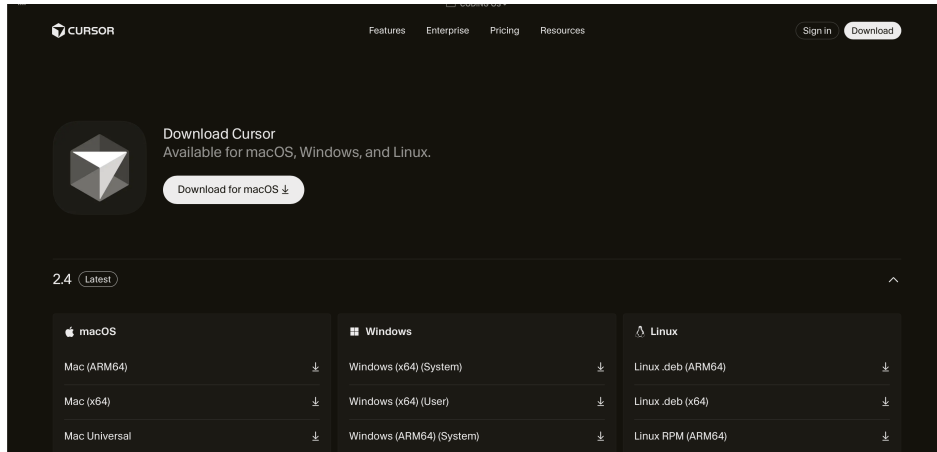
Figure 1: Cursor official website (cropped using LaTeX)

5 Installation Process

The downloaded installation file was executed and the on-screen instructions were followed to complete the setup process.

Figure 2: Installation procedure (cropped in LaTeX)

6 Initial Launch

After installation, Cursor IDE was launched successfully. Basic startup preferences such as interface theme and optional account login were configured.
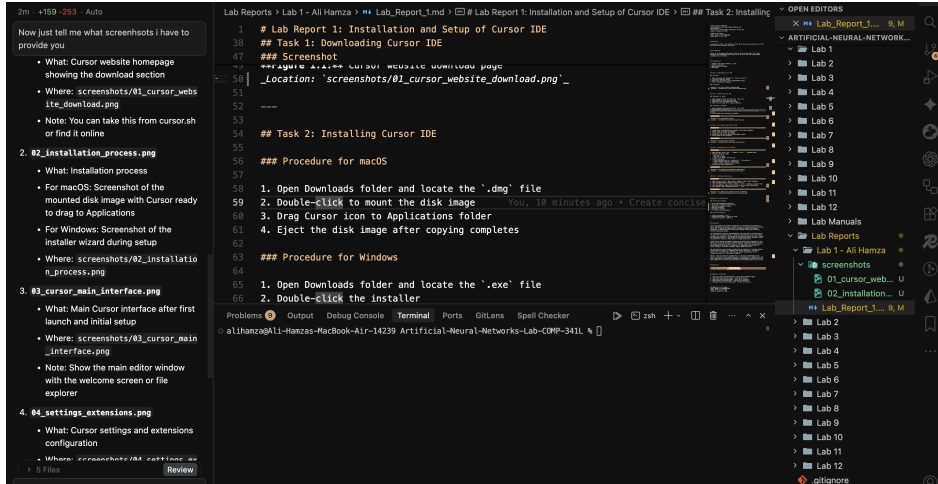
Figure 3: Main interface of Cursor IDE (cropped)

7 Environment Configuration

Several editor preferences were adjusted to improve usability. Python and Jupyter extensions were also installed to support neural network experiments.
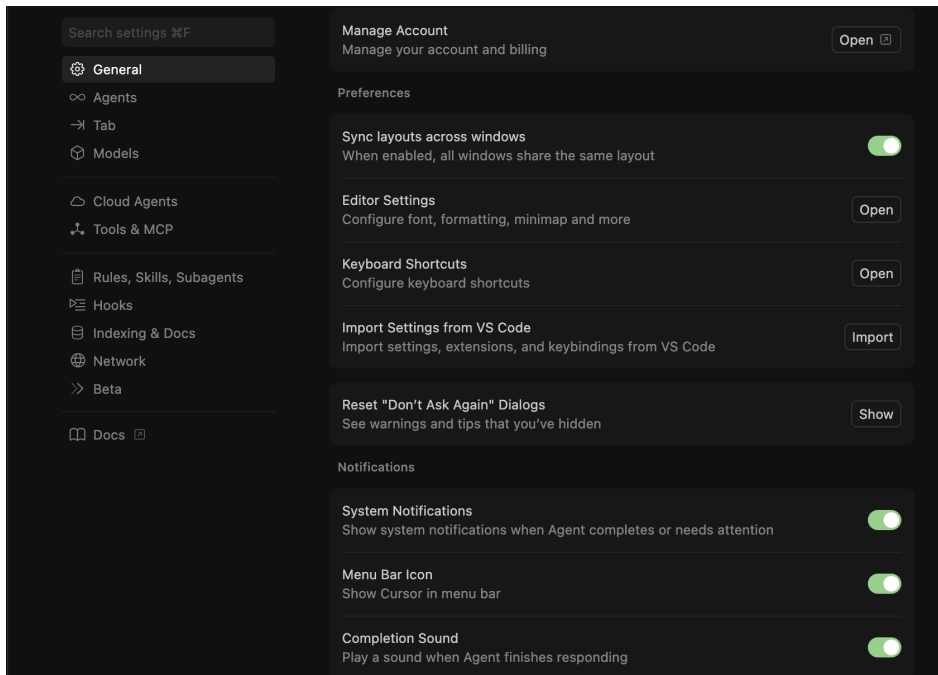

Figure 4: Settings and extensions view (cropped)

8 Verification

The installation was verified by performing multiple tests including file creation, syntax highlighting, terminal access, and AI tool activation. All components operated as expected.

9 Observations

- Installation completed without errors

- Interface was responsive and user-friendly

- AI tools were accessible through shortcuts

- Python environment support was functional

Software Details

- Cursor Version: 2.4.21

- Operating System: macOS 26.2

- Installation Date: January 26, 2026

10 Conclusion

This laboratory task successfully established a complete development setup using Cursor IDE. The configuration process improved understanding of development tools and prepared the system for upcoming Artificial Neural Networks experiments.

The environment created during this lab will be utilized throughout the course for coding, testing, and model development.

11 References

1. Cursor Official Website: `https://cursor.com`

2. Cursor Documentation: `https://docs.cursor.com`