Contents

[**FER13 Dataset** 2](#_Toc135677819)

[**Plan 1** 2](#_Toc135677820)

[**Plan 2** 5](#_Toc135677821)

[**Plan 3** 8](#_Toc135677822)

[**Plan 4** 10](#_Toc135677823)

[**Plan 8** 12](#_Toc135677824)

[**CKPLUS Dataset** 13](#_Toc135677825)

[**Plan 1** 13](#_Toc135677826)

[**Plan 2** 17](#_Toc135677827)

[**Plan 8** 20](#_Toc135677828)

[**FER2013+ Dataset** 21](#_Toc135677829)

[**Origin Code** 21](#_Toc135677830)

[**Plan 3** 23](#_Toc135677831)

[**A.** **Part 1** 23](#_Toc135677832)

[**B.** **Part 2** 25](#_Toc135677833)

[**C.** **Part 3** 27](#_Toc135677834)

[**D.** **Part 4** 29](#_Toc135677835)

[**Plan 4** 31](#_Toc135677836)

[**A.** **Part 1** 31](#_Toc135677837)

[**B.** **Part 2** 33](#_Toc135677838)

# **FER13 Dataset**

## **Plan 1**



Figure 1 – 1.2



Figure 2 – 1.3

A screenshot of a computer

Description automatically generated

Figure 3 – 1.6

## **Plan 2**

**A screenshot of a computer

Description automatically generated with medium confidence**A screenshot of a computer program

Description automatically generated with medium confidence

Figure 1 – 2.1

**A screenshot of a computer

Description automatically generated with medium confidenceA screenshot of a computer program

Description automatically generated with medium confidence**

Figure 2 – 2.2

**A screenshot of a computer

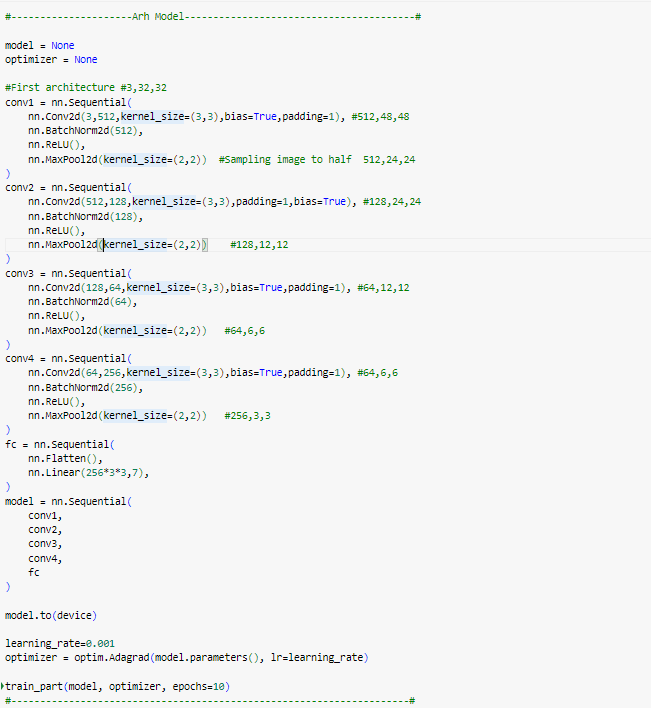
Description automatically generated**

Figure 3 – 2.3

## **Plan 3**

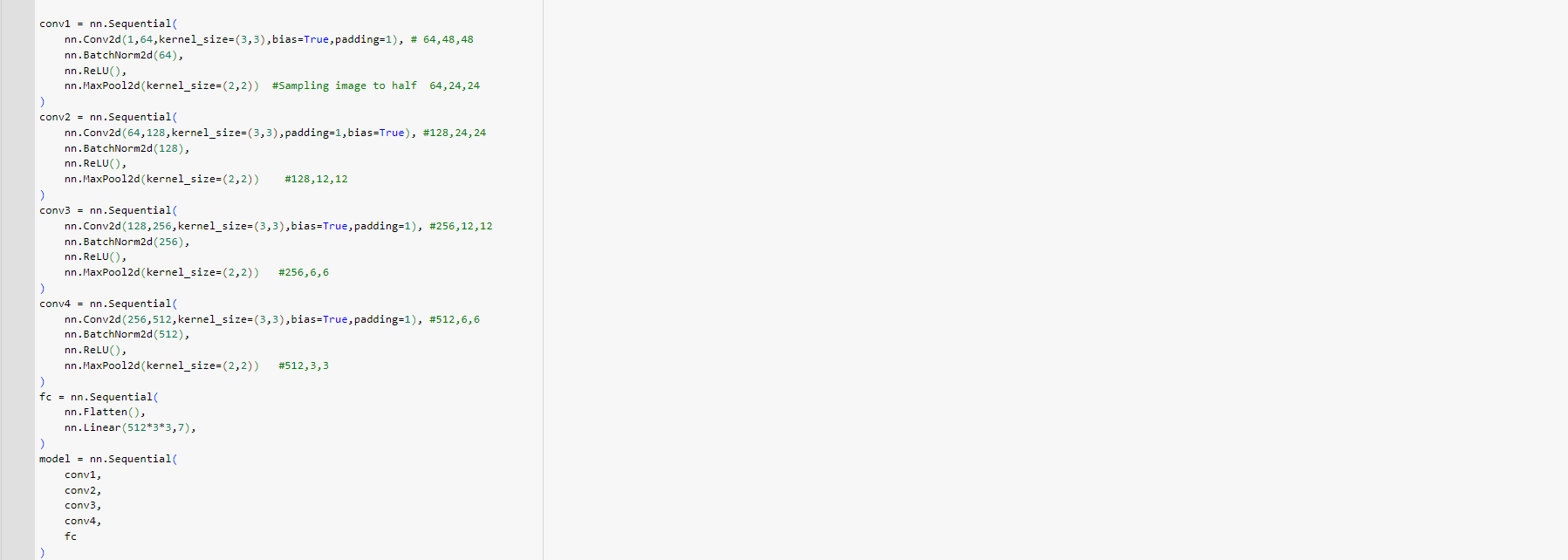




Figure 1 - 3.1

A picture containing text, screenshot

Description automatically generated

A picture containing text, screenshot, font

Description automatically generated

Figure 2 - 3.2

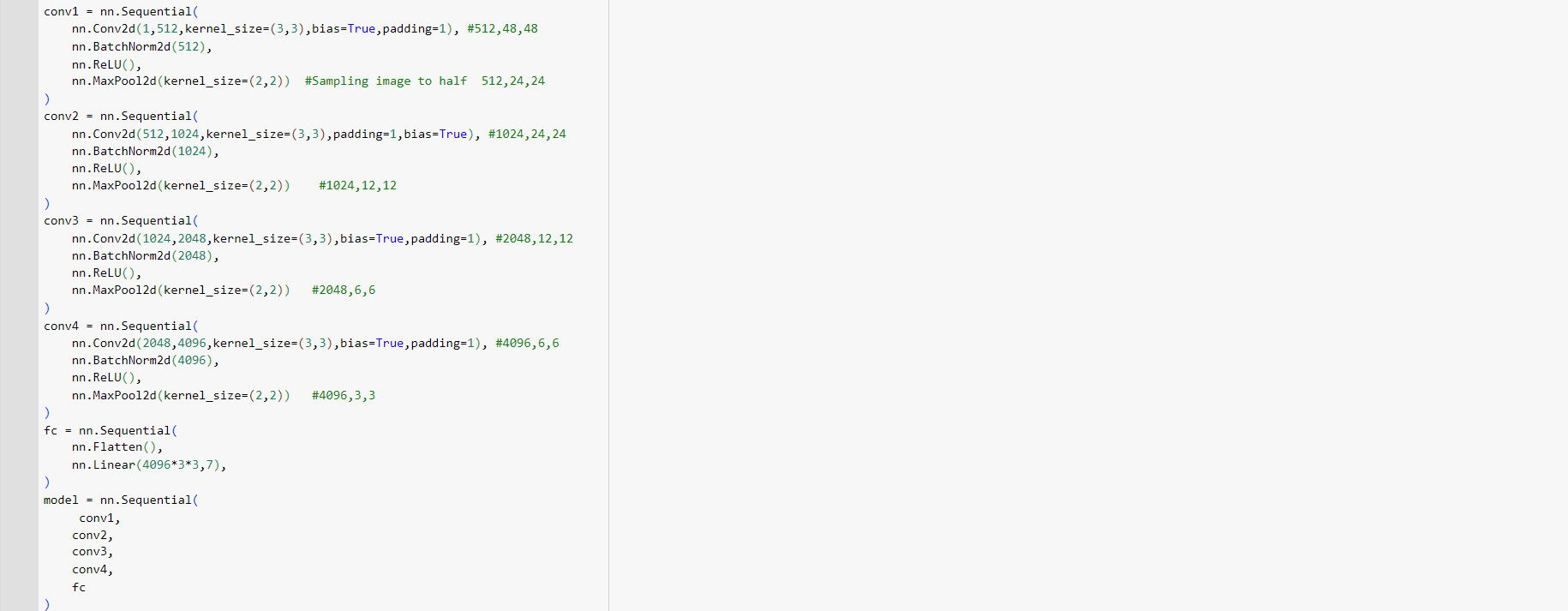




Figure 3 - 3.3

A picture containing text, screenshot

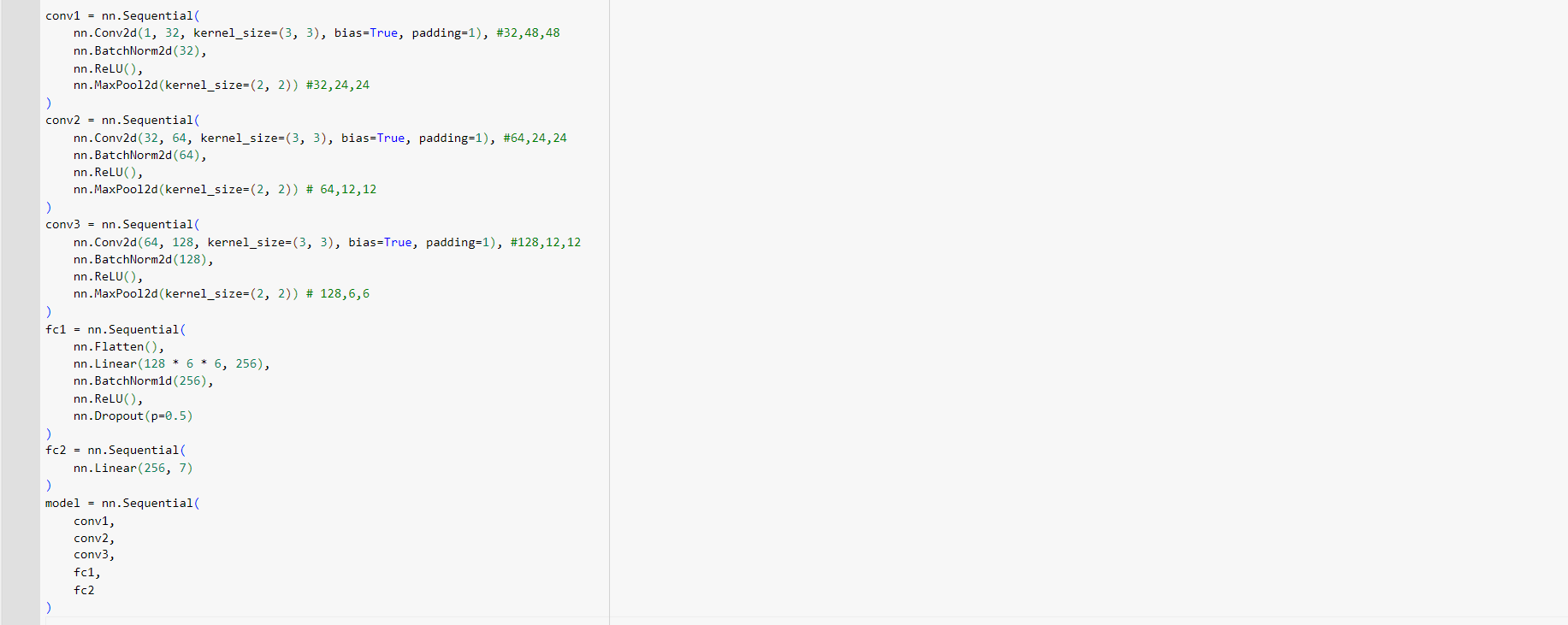
Description automatically generated

A picture containing text, font, screenshot, algebra

Description automatically generated

Figure 4 - 3.4

## **Plan 4**



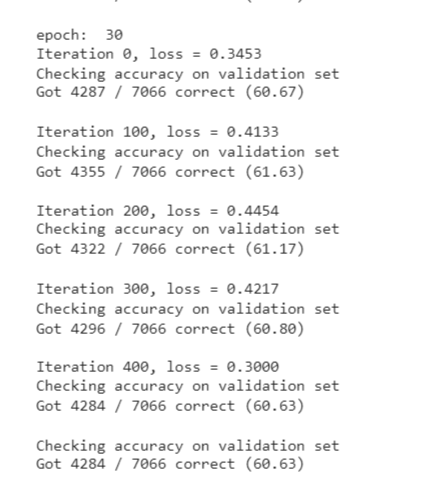
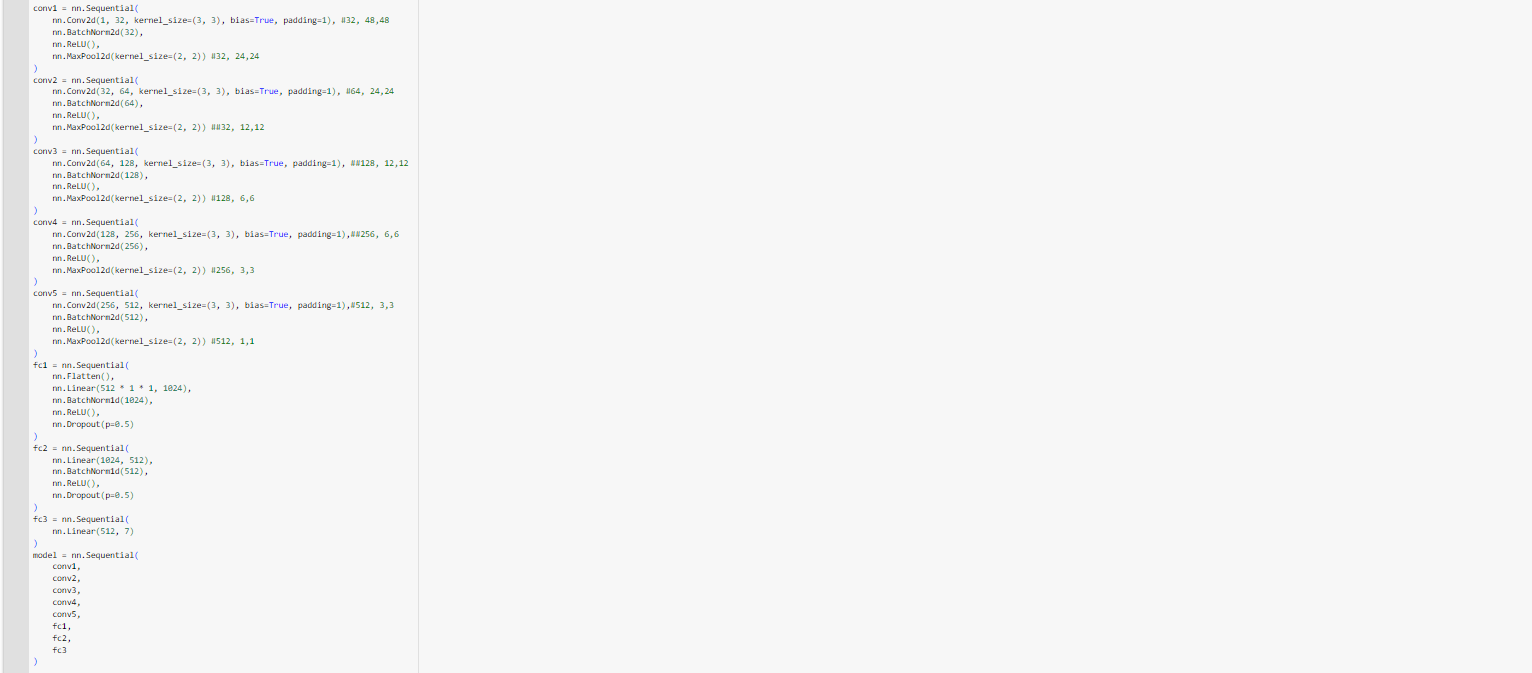
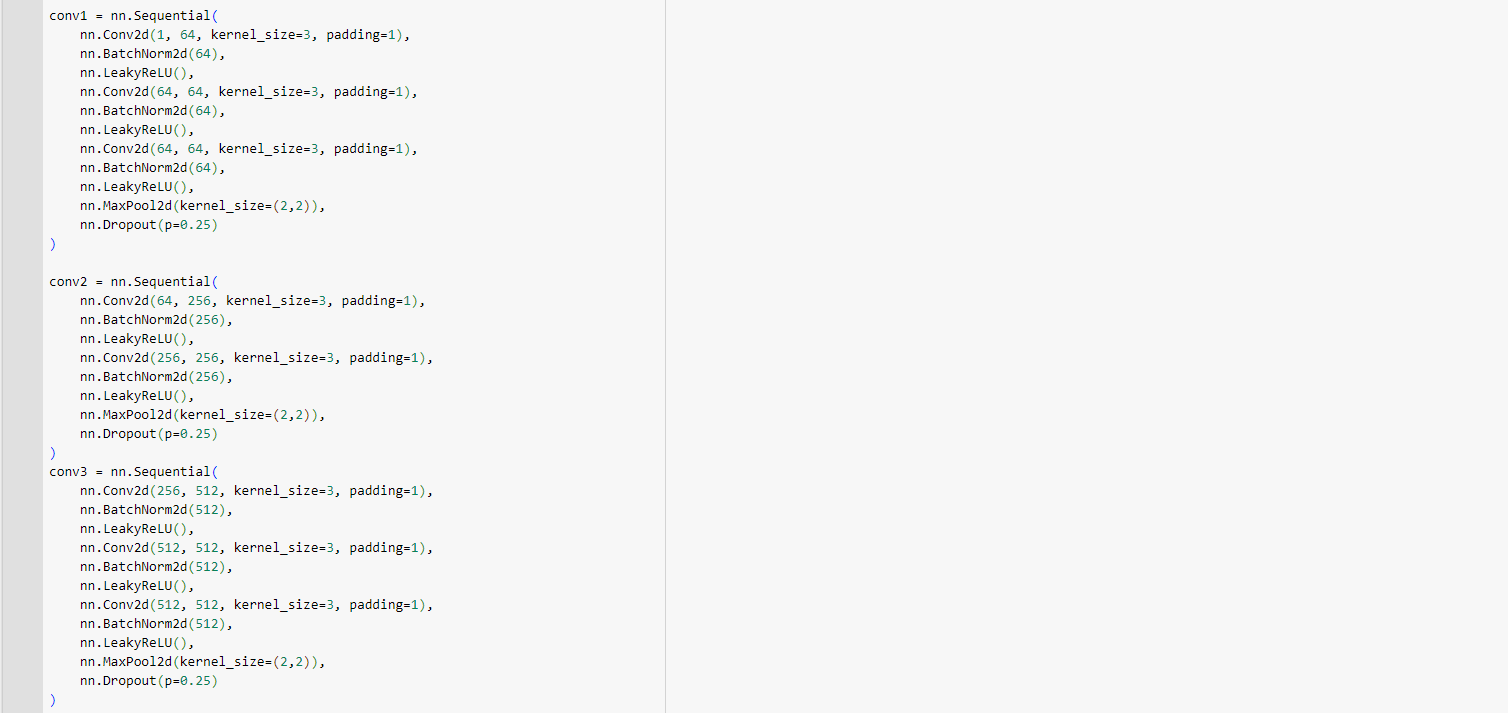
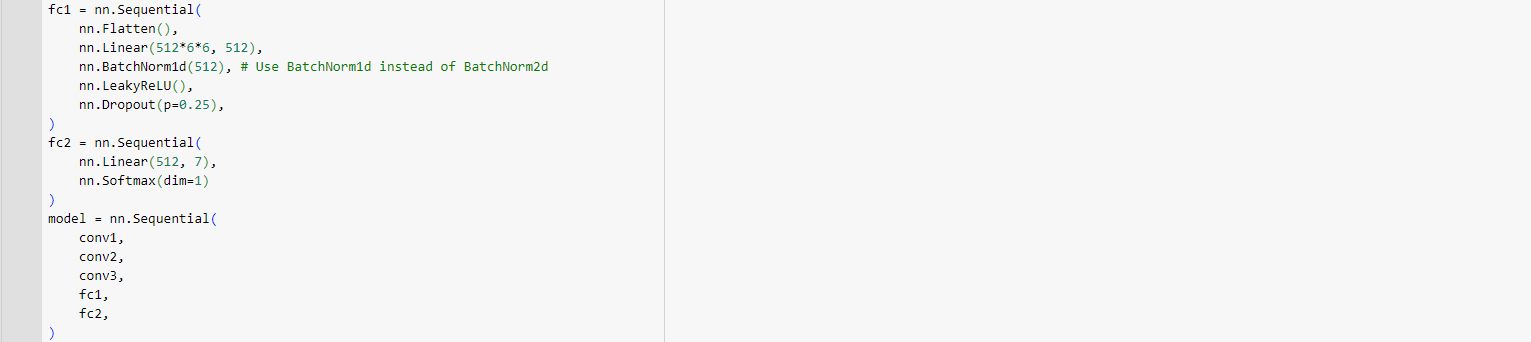


Figure 1 - 4.1

****

****

Figure 2 - 4.2

****

**A picture containing text, screenshot, font, algebra

Description automatically generated**

Figure 3 - 4.3

## **Plan 8**

A screen shot of a computer

Description automatically generated with medium confidence

Figure 1 – 8.1

# **CKPLUS Dataset**

## **Plan 1**

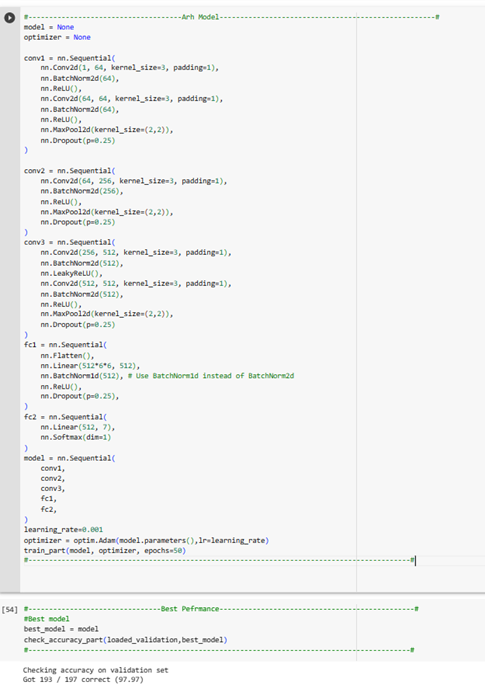


Figure 1 – 1.1



Figure 2 – 1.2



Figure 3 – 1.3

A screenshot of a computer program

Description automatically generated with medium confidence

Figure 4 – 1.6

## **Plan 2**

**A screenshot of a computer

Description automatically generated**A screenshot of a computer program

Description automatically generated with medium confidence

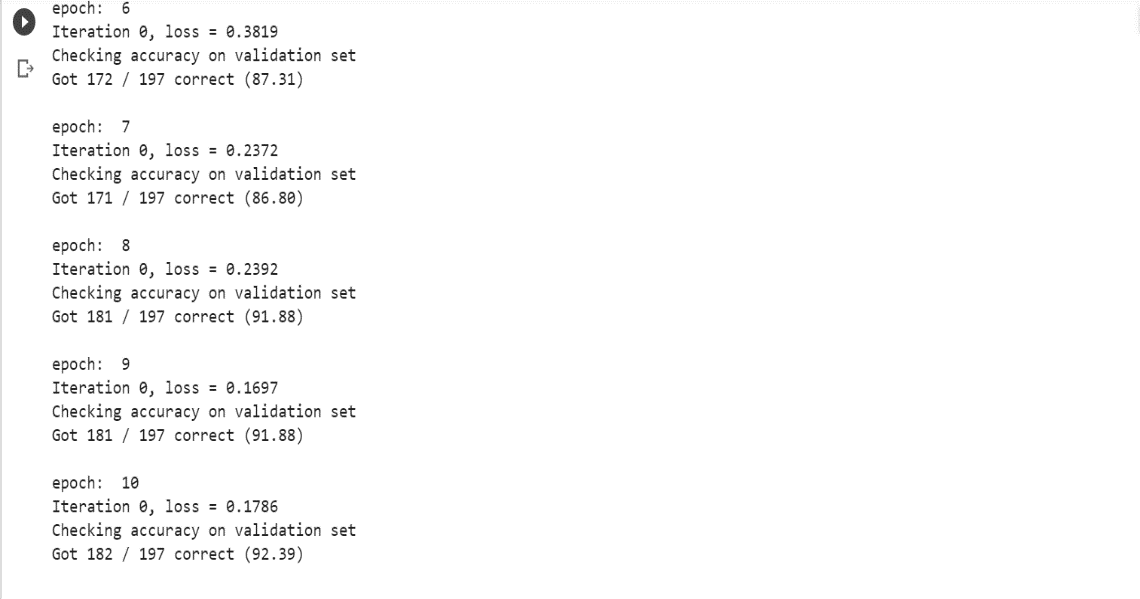
Figure 1 – 2.1

**A picture containing text, screenshot, font

Description automatically generatedA screenshot of a computer program

Description automatically generated with medium confidence**

Figure 2 – 2.2

**A screenshot of a computer program

Description automatically generated with medium confidence**

Figure 2 – 2.3

## **Plan 8**

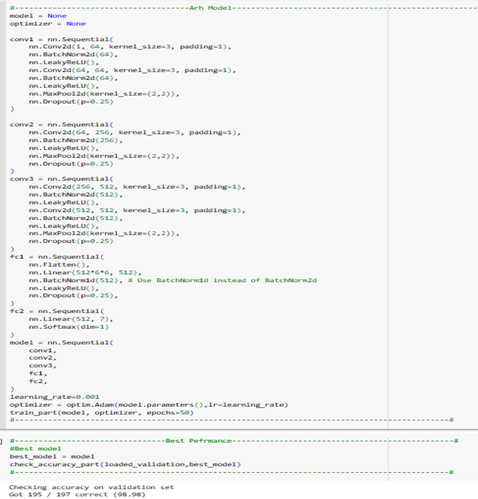


Figure 1 – 8.1

# **FER2013+ Dataset**

## **Origin Code**

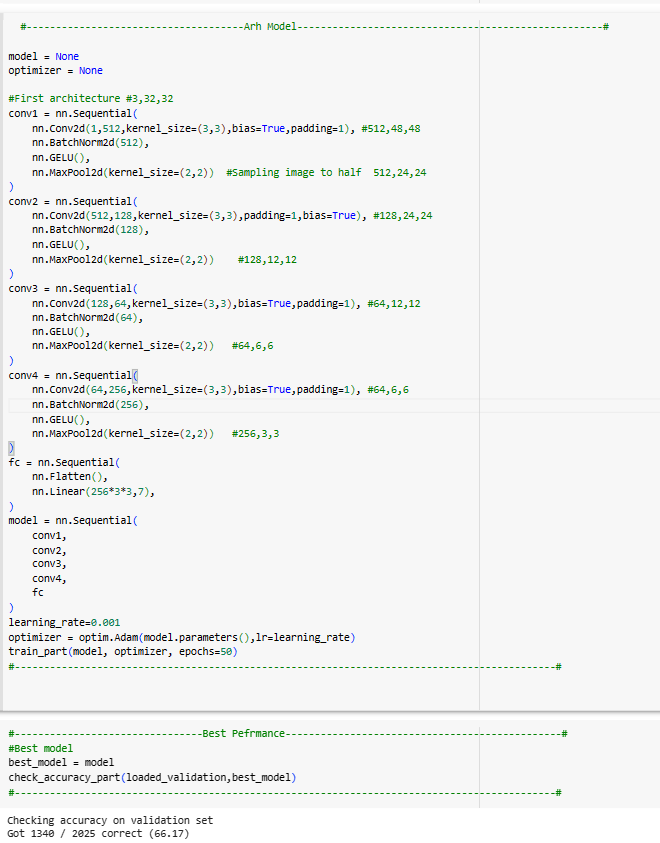


Figure 1 – Training

A screenshot of a computer program

Description automatically generated with low confidence

Figure 2 – Testing

## **Plan 3**

### **Part 1**

A screenshot of a computer

Description automatically generated

Figure 3 – Testing

A screenshot of a computer program

Description automatically generated with medium confidence

Figure 4 – Testing

### **Part 2**

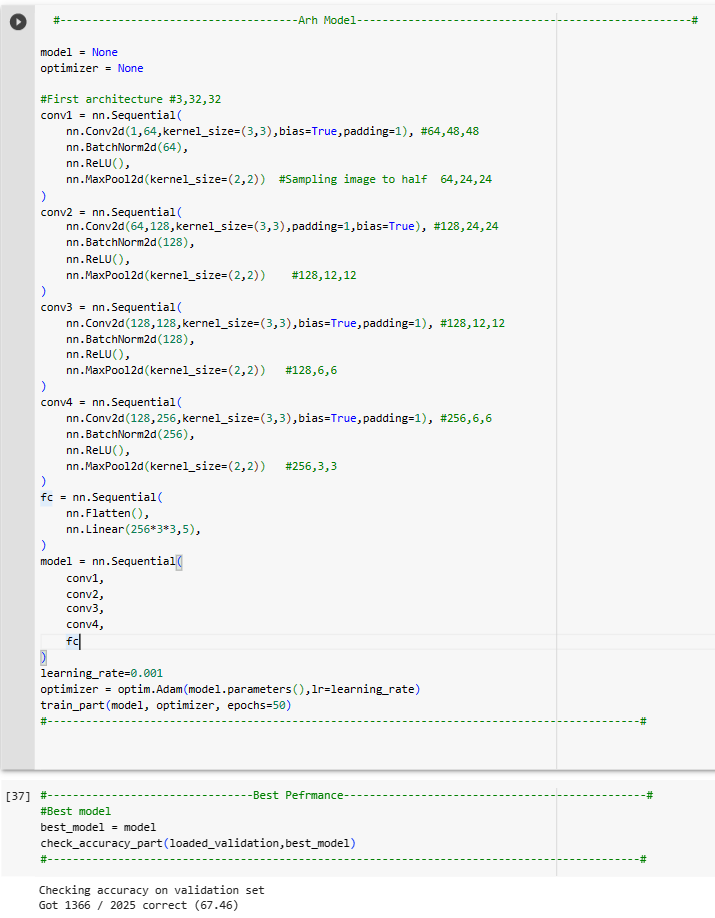


Figure 5– Training

A screenshot of a computer

Description automatically generated with medium confidence

Figure 6 – Testing

### **Part 3**

A screenshot of a computer

Description automatically generated with medium confidence

Figure 7– Training

A screenshot of a computer program

Description automatically generated with low confidence

Figure 8– Testing

### **Part 4**

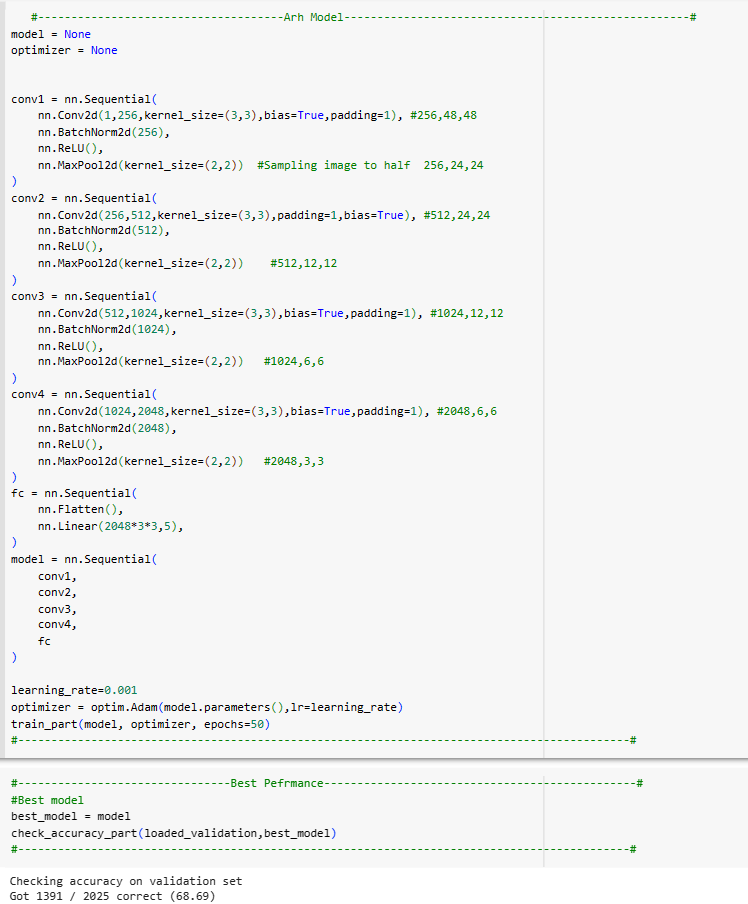


Figure 9– Training

A screenshot of a computer program

Description automatically generated with low confidence

Figure 10– Testing

## **Plan 4**

### **Part 1**

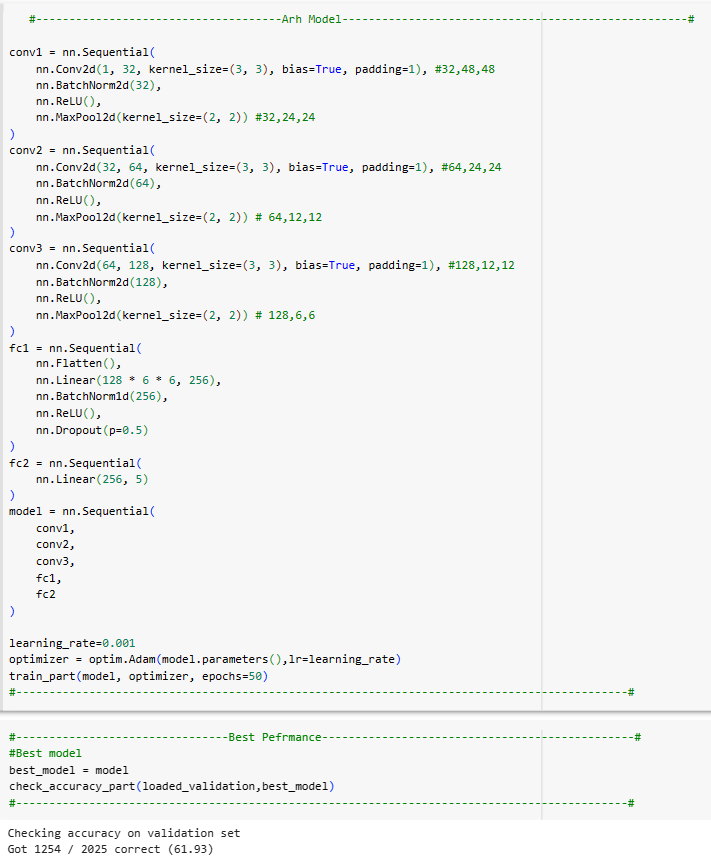


Figure 11– Training

A screenshot of a computer program

Description automatically generated with low confidence

Figure 12– Testing

### **Part 2**



Figure 13– Training

A screenshot of a computer program

Description automatically generated with low confidence

Figure 14– Testing