# Traffic Sign Detection App

# Software Architecture

## Version 1.0

## Team Members:

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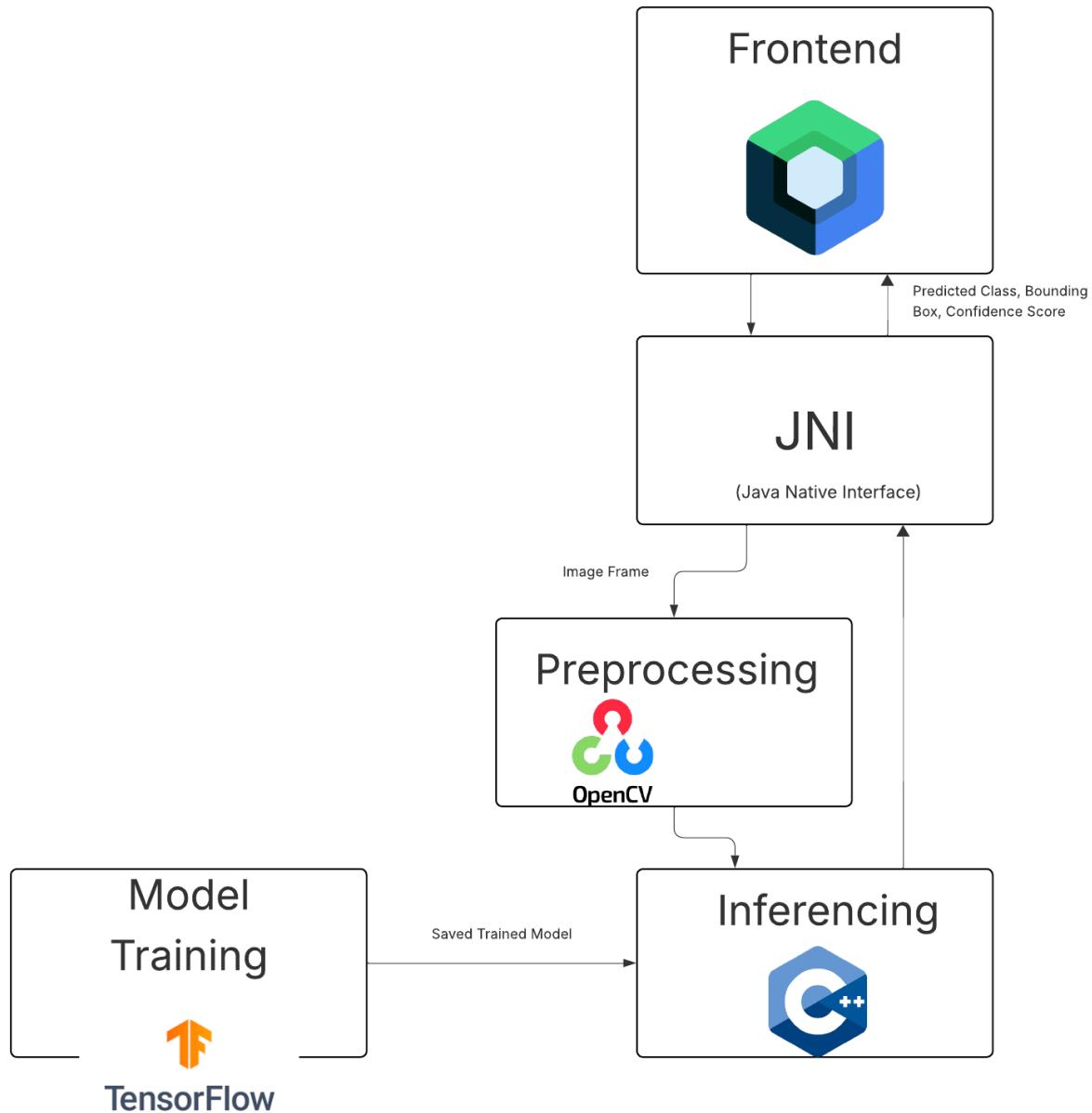Aidan Mao

Jacob Heffelmire

# Revision History

| Date | Version | Description | Name |
|---|---|---|---|
| 10/3/25 | 1.0 | First draft | Hayden Jones |
| | | | |

System Model:

YOLO Architecture Model:



| Conv. Layer | Conv. Layer | Conv. Layers | Conv. Layers | Conv. Layers | Conv. Layers | Conn. Layer | Conn. Layer |
|---|---|---|---|---|---|---|---|
| 7x7x64-s-2 | 3x3x192 | 1x1x128 | 1x1x256 }×4 | 1x1x512 }×2 | 3x3x1024 | | |
| Maxpool Layer | Maxpool Layer | 3x3x256 | 3x3x512 | 3x3x1024 | 3x3x1024 | | |
| 2x2-s-2 | 2x2-s-2 | 1x1x256 | 1x1x512 | 3x3x1024 | | | |
| | | 3x3x512 | 3x3x1024 | 3x3x1024-s-2 | | | |
| | | Maxpool Layer | Maxpool Layer | | | | |
| | | 2x2-s-2 | 2x2-s-2 | | | | |