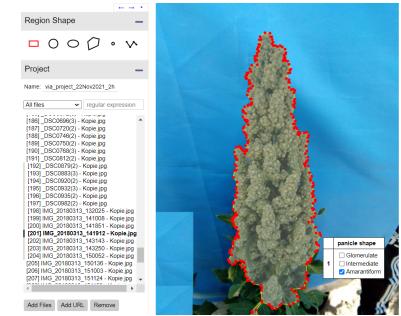


(a) Panicle images



(b) Image annotation

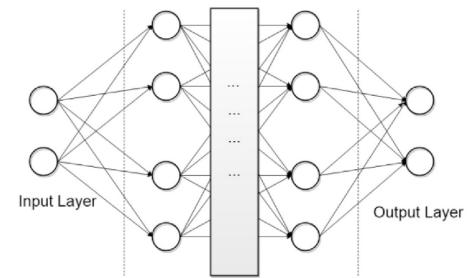


(d) Best segmentation model
(segmentation-09)

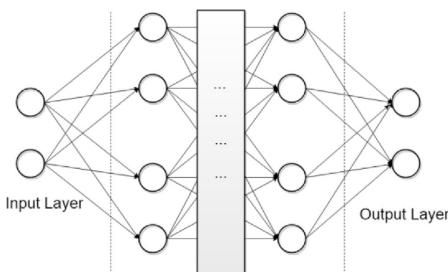


Panicle traits:
- Length
- Width
- Area
- RGB values
- Indices

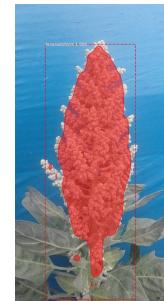
(c) Segmentation model training:
16 models



(e) Classification model training:
12 models

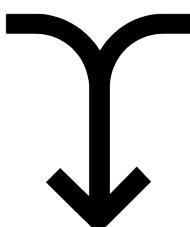


(f) Best classification model
(classification-08)



Panicle shape:
- Glomerulate
- Amarantiform

(g) Phenotyping
(merge data)



(h) Analysis

- Genetic parameters
- Heritability
- QTL mapping*
- GWAS*