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Soybean Yield Prediction Web

App

Enter plant data manually or upload CSV to predict seed yield (g/m²).

About Dataset

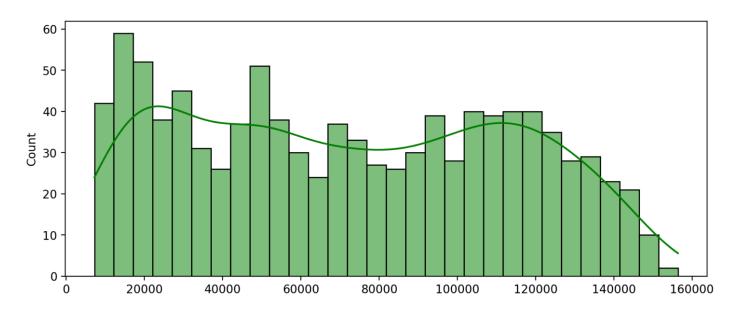
The training data was collected from field experiments and agricultural trials. Parameters such as plant height, pods, biomass, sugars, chlorophyll and protein content were measured using standard sensors and lab analysis. Data is from the Kaggle dataset "Advanced Soybean Agricultural Dataset" (2025).

Choose input method: Manual Input Upload CSV **Upload CSV** Drag and drop file here Browse files Limit 200MB per file • CSV test_soybean_yield_dataset.csv 220.8KB X Predictions completed.

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	Plant Height (PH)	Number of Pods (NP)	Biological Weight (BW)	Sugars (Su)	Relative Water Content in L
0	49.9671	42	140.5652	0.5343	
1	43.6174	53	175.4583	0.2944	
2	51.4769	54	114.7331	0.9705	
3	60.2303	55	140.0596	0.7436	
4	42.6585	47	122.942	0.9614	

II Yield Distribution



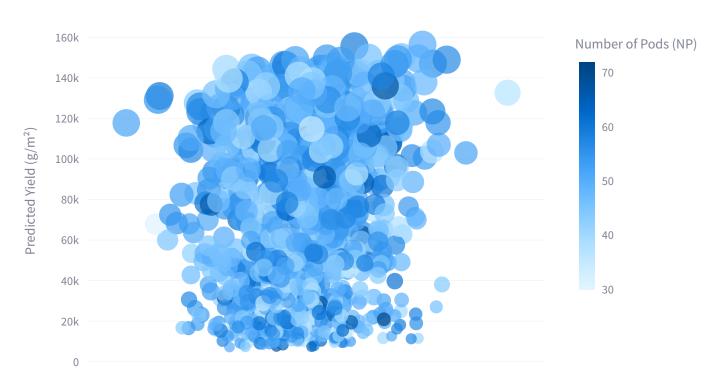
Yield Heatmap (PH vs NP)

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(12.516, 19.681]	67850					123496		131046			
(19.681, 26.775]		53450	62082	72266	53593	96029				- 120000	
(26.775, 33.869]	70654	69219	63092	65927	61335	74916	90669	101153	31567		
(33.869, 40.963]	- 54151	67651	59884	68874	72739	64800	59115	58760	74237	58419	- 100000
<u>د</u> (40.963, 48.057]	85773	63824	69487	66042	78840	79652	60182	65833	49520	63062	
(48.057, 55.151]	59790	69456	61813	77881	81625	74936	84101	53370	58488	29111	- 80000
(55.151, 62.245]	122133	83410	65828	84667	73443	70338	95357	85435	91114	73108	
(62.245, 69.339] -		66615	48725	112493	100735	115272	56868	68228			- 60000
(69.339, 76.433] -		103663		32542	107008	110417	139827				
(76.433, 83.527]	-	132671									- 40000
	(29.958, 34.2] -	(34.2, 38.4] -	(38.4, 42.6] -	(42.6, 46.8] -	(46.8, 51.0] -	(51.0, 55.2] -	(55.2, 59.4] -	(59.4, 63.6] -	(63.6, 67.8] -	(67.8, 72.0] -	
NP_bin											

Interactive Yield Visualization



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20 40 60 80

Plant Height (PH)

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