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#	String	Uniqueness
1	Efficient Sprinkler Irigation Control System for	Good
2	School of Computer Science and Engineering	Good
3	Technology, Chennai	Good
4	School of Computer Science and Engineering	Good
5	Technology, Chennai	Good
6	School of Computer Science and Engineering	Good
7	Technology, Chennai	Good
8	School of Computer Science and Engineering	Good
9	Technology, Chennai	Good
10	has boomed, irrigation has been the root cause which	Good
11	ed towards, the so-called bloom of civilization. In	Good
12	vilization. In the early days irrigation would be ever	Good
13	so simple, unlike today, where there are multiple techniques,	Good
14	like today, where there are multiple techniques, each	Good
15	techniques, each having their own benefits. In this	Good
16	n benefits. In this paper we isolate one such techniques,	Good
17	techniques, which is the sprinkler irrigation, and try	Good

#	String	Uniqueness
18	irrigation, and try to analyze its effect, as well as	Good
19	its effect, as well as its productivity. Altogether	Good
20	oductivity. Altogether we try to find the perfect conditions,	Good
21	conditions, such as soil type, humidity and temperature	Good
22	soil type, humidity and temperature and duration for	Good
23	rds—Keypad, Liquid Crystal Display, Arduino, Password,	Good
24	al Display, Arduino, Password, Security, Safety	Good
25	, Password, Security, Safety	Good
26	vilization. Throughout the major civilizations, that	Good
27	ilizations, that have risen during the course of history	Good
28	ion system. There are many such evidences which point	Good
29	irrigation, which is all the more relevant in today's	Good
30	ay's world. Today there are multiple methods/types of	Good
31	irrigation, each unique to their region and the type	Good
32	ed to grow. The following are the types of irrigation	Good
33	ter system, an advanced rural strategy, effectively	Good
34	l strategy, effectively conveys water over areas through	Good
35	kler heads. It optimizes water utilization, diminishes	Good
36	tilization, diminishes soil disintegration, and upgrades	Good
37	ntegration, and upgrades trim yields. Its versatility	Good
38	rim yields. Its versatility to different scenes and	Good
39	priceless, particularly in dry districts. By empowering	Good
40	districts. By empowering exact water conveyance, it	Good
41	conveyance, it advances supportability and versatility	Good
42	rticulture, exemplifying humanity's capacity for development	Good
43	tewardship. A perfect type of irrigation to be analyzed.	Good
44	ter system, a progressed rural strategy, conveys water	Good

#	String	Uniqueness
45	l strategy, conveys water specifically to plant roots	Good
46	d emitters. This exact strategy moderates' water, minimizes	Good
47	tes' water, minimizes soil disintegration, and upgrades	Good
48	ntegration, and upgrades edit yields by keeping up ideal	Good
49	ess levels. Its versatility to differing crops and landscapes	Good
50	al farming, especially in water-scarce districts. Dribble	Good
51	districts. Dribble water system embodies advancement	Good
52	ting hones, guaranteeing nourishment security whereas	Good
53	wing areas, permitting water to stream over the soil	Good
54	il surface. Whereas basic and cost-effective, it can	Good
55	-effective, it can lead to water wastage, soil disintegration,	Good
56	er wastage, soil disintegration, and uneven dispersion.	Good
57	ntegration, and uneven dispersion. In any case, with	Good
58	dispersion. In any case, with appropriate administration,	Good
59	n any case, with appropriate administration, surface	Good
60	nistration, surface water system can still be viable	Good
61	landscapes, serving as a foundational method in agrarian	Good
62	of plants, minimizing squander and maximizing productivity.	Good
63	oductivity. This strategy, frequently accomplished through	Good
64	s strategy, frequently accomplished through trickle	Good
65	aker hoses, diminishes water utilization and advances	Good
66	velopment. Its accuracy makes it perfect for zones	Good
67	be a need. Localized water system speaks to a economical	Good
68	ultivating, guaranteeing ideal plant hydration whereas	Good
69	d's length, dispersing water equally through sprinklers	Good
70	strategies. This strategy effectively covers expansive	Good
71	ve regions, guaranteeing uniform water application and	Good

#	String	Uniqueness
72	surrender. It offers adaptability in water administration	Good
73	erritories. Sidelong move water system speaks to a cutting	Good
74	tting edge, mechanized approach to farming, improving	Good
75	to farming, improving productivity and efficiency whereas	Good
76	than these, there are a few such as hose-end irrigation	Good
77	arge scale. However, choosing the irrigation method	Good
78	crop type, soil type and many other factors including	Good
79	ty of soil. This very topic interested Burt Charles	Good
80	n 1999 [6], which explores the idea of choosing a method	Good
81	al factors. Today. Irrigation has come a long way; it	Good
82	vilization. While the very first "papers" or formal	Good
83	c articles, early writings and manuals on irrigation	Good
84	ilizations, including those in Mesopotamia, Egypt, China,	Good
85	esopotamia, Egypt, China, and India. However, formal	Good
86	ypt, China, and India. However, formal scientific investigation	Good
87	and India. However, formal scientific investigation	Good
88	much later. One of the earliest mentions of irrigation	Good
89	ck to 1557, a book published by Thomas Tusser "The Book	Good
90	Husbandry". The Book was published in the 16th century,	Good
91	th century, it provides one of the earliest accounts	Good
92	in England, including sections on the management of	Good
93	or farming. "The Complete Surveyor" was one of the very	Good
94	on methods, it included the methods for measuring land	Good
95	ging water. The book was published in the year 1653	Good
96	th century. As the world progressed irrigation techniques	Good
97	id as well. During the industrial revolution, engineering	Good
98	revolution, engineering was at the initial stage of	Good

#	String	Uniqueness
99	velopment. India was a land of richness, not in money	Good
100	f richness, not in money but in nature. The British	Good
101	in nature. The British colonial period had drained	Good
102	a's wealth. However, it was during this period that	Good
103	year 1858. The book covers the major engineering aspects	Good
104	griculture. One of the first few papers to be published	Good
105	hn E et al. As seen earlier, there are multiple practices	Good
106	en earlier, there are multiple practices being used	Good
107	irrigation. Initially sprinklers were mostly used in	Good
108	l purposes. Sprinkling devices were used as early as	Good
109	gardening. There was a significant innovation in the	Good
110	griculture. In the year 1871, J. Lesser was granted	Good
111	year 1871, J. Lesser was granted the patent for lawn	Good
112	sprinkler, which drove experiments to be related to	Good
113	r orchards. These were found to be one of the very first	Good
114	al context, which were initially aimed at improving	Good
115	for frost. However, later the motive deviated towards	Good
116	e of water. The progress eventually led to the innovation	Good
117	ank Zybach, 1948 [8], which was granted patent in the	Good
118	year 1952. Moreover, there have been much advance developments	Good
119	cent years, which mainly focus on automation and precision.	Good
120	precision. One such example is the Low Energy Precision	Good
121	ion System., by Lyle W M et al, 1981 [9]. The LEPA system,	Good
122	W M et al, 1981 [9]. The LEPA system, considers all	Good
123	EPA system, considers all conditions including the water	Good
124	vaporation, water loss due to wind and tries to optimize	Good
125	resources. In this specific implementation we use two	Good

#	String	Uniqueness
126	regression. Fuzzy Logic, by Lotfi Zadeh et al [10],	Good
127	uzzy Logic, by Lotfi Zadeh et al [10], 1996, was developed	Good
128	et al [10], 1996, was developed to represent and manipulate	Good
129	nformation, in form called as fuzzy sets. Despite, its	Good
130	fuzzy sets. Despite, its vagueness fuzzy logic has been	Good
131	plications. There have been other efforts made to use	Good
132	uzzy logic, much like the one made by Mattar, Mohamed	Good
133	by Mattar, Mohamed Abdel-Aziz et al, 2017, Modelling	Good
134	Aziz et al, 2017, Modelling Sprinkler Irrigation infiltration	Good
135	on however, is slightly different from fuzzy logic.	Good
136	uzzy logic. Linear regression, Sir Francis Galton, 1886	Good
137	regression, Sir Francis Galton, 1886 [11], was invented	Good
138	cis Galton, 1886 [11], was invented much earlier than	Good
139	1886 [11], was invented much earlier than the fuzzy	Good
140	uzzy logic. However, due to the nature of its complexity,	Good
141	complexity, it took a while for the concept to get introduced	Good
142	automation. In our implementation, linear regression	Good
143	ementation, linear regression has been used to predict	Good
144	ned on for. However, there have not been any similar	Good
145	ver before. Nonetheless, there have been other publishes	Good
146	onetheless, there have been other publishes not straying	Good
147	the topic, like the one made by Al-Ghobari, Hussein	Good
148	Al-Ghobari, Hussein M., et al, 2018, [12], in which	Good
149	Hussein M., et al, 2018, [12], in which it is tried	Good
150	t al, 2018, [12], in which it is tried to predict the	Good
151	ython code. Jupyter Notebook allows you to write your	Good
152	your code, visualize results and explanation all in	Good

#	String	Uniqueness
153	ith Python. It provides efficient arrays and linear	Good
154	operations. While not explicitly used in the code for	Good
155	is project, NumPy is often used behind the scenes in	Good
156	nipulation. It offers data structures like DataFrames	Good
157	In our code pandas is used extensively for:	Good
158	V file (pd.read_csv).	Good
159	Creating DataFrames to store and organize the data.	Good
160	columns (e.g., dropping columns and creating new DataFrames).	Good
161	ning tasks. It provides a variety of algorithms for	Good
162	sification, regression, clustering, and more.	Good
163	regression, clustering, and more.	Good
164	clustering, and more.	Good
165	cific case, the code uses scikit-learn for:	Good
166	Splitting data into training and testing sets (train_test_sp	Good
167	Building and training a linear regression model	Good
168	Evaluating the model's performance using mean squared	Good
169	A versatile library for creating various visualizations	Good
170	this case, the code uses matplotlib (imported as plt)	Good
171	tions (plt.hist).	Good
172	idity (plt.scatter).	Good
173	A built-on top of matplotlib, offering a higher-level	Good
174	While not directly imported or used in the provided	Good
175	The primary aim of this study was to develop an	Good
176	conditions, including temperature and humidity, were	Good
177	d humidity, were collected from weather stations. Additionally,	Good
178	r stations. Additionally, soil moisture sensors were	Good
179	ditionally, soil moisture sensors were utilized to gather	Good

#	String	Uniqueness
180	ure levels. Luckily for us however the dataset was readily	Good
181	in Kaggle. These variables were crucial for modeling	Good
182	collected, two distinct algorithms, fuzzy logic, and	Good
183	algorithms, fuzzy logic, and linear regression, were	Good
184	uzzy logic, and linear regression, were identified as	Good
185	regression, were identified as suitable candidates for	Good
186	d humidity. Fuzzy logic was chosen for its ability to	Good
187	ion-making, while linear regression offered a data-driven	Good
188	ific rules. Input variables, such as temperature and	Good
189	variables, such as temperature and humidity, were linguistically	Good
190	d humidity, were linguistically characterized using	Good
191	functions. A rule base was formulated to map linguistic	Good
192	durations, incorporating expert knowledge and empirical	Good
193	d humidity. Feature selection techniques were employed	Good
194	predictors, and the model was trained using supervised	Good
195	algorithms. Model performance was evaluated using cross-validation	Good
196	SPRINKLER_DURATION = 'sprinkler_duration'	Good
197	# Sprinkler duration's fuzzy linguistics	Good
198	ure = ctrl.Antecedent(np.arange(-10,55,5), TEMPRATURE)	Good
199	ecedent(np.arange(-10,55,5), TEMPRATURE)	Good
200	arange(-10,55,5), TEMPRATURE)	Good
201	ity = ctrl.Antecedent(np.arange(0,105,5), HUMIDITY)	Good
202	ecedent(np.arange(0,105,5), HUMIDITY)	Good
203	ange(0,105,5), HUMIDITY)	Good
204	ion = ctrl.Consequent(np.arange(0,105,5), SPRINKLER_DURATION)	Good
205	sequent(np.arange(0,105,5), SPRINKLER_DURATION)	Good
206	ange(0,105,5), SPRINKLER_DURATION)	Good

#	String	Uniqueness
207	ter = [-10,0,10]	Good
208	meter = [0,10,20]	Good
209	eter = [10,20,30]	Good
210	eter = [20,30,40]	Good
211	eter = [30,40,50]	Good
212	LD] = fuzz.trimf(temperature.universe, cold_parameter)	Good
213	emperature.universe, cold_parameter)	Good
214	OL] = fuzz.trimf(temperature.universe, cool_parameter)	Good
215	emperature.universe, cool_parameter)	Good
216	AL] = fuzz.trimf(temperature.universe, normal_parameter)	Good
217	emperature.universe, normal_parameter)	Good
218	RM] = fuzz.trimf(temperature.universe, warm_parameter)	Good
219	emperature.universe, warm_parameter)	Good
220	OT] = fuzz.trimf(temperature.universe, hot_parameter)	Good
221	emperature.universe, hot_parameter)	Good
222	emperature.view()	Good
223	meter = [0,25,50]	Good
224	eter = [25,50,75]	Good
225	eter = [50,75,100]	Good
226	RY] = fuzz.trimf(humidity.universe, dry_parameter)	Good
227	f(humidity.universe, dry_parameter)	Good
228	ST] = fuzz.trimf(humidity.universe, moist_parameter)	Good
229	f(humidity.universe, moist_parameter)	Good
230	ET] = fuzz.trimf(humidity.universe, wet_parameter)	Good
231	f(humidity.universe, wet_parameter)	Good
232	meter = [0,25,50]	Good
233	eter = [25,50,75]	Good

#	String	Uniqueness
234	eter = [50,75,100]	Good
235	RT] = fuzz.trimf(sprinkler_duration.universe, short_parameter)	Good
236	r_duration.universe, short_parameter)	Good
237	UM] = fuzz.trimf(sprinkler_duration.universe, medium_parameter)	Good
238	r_duration.universe, medium_parameter)	Good
239	NG] = fuzz.trimf(sprinkler_duration.universe, long_parameter)	Good
240	r_duration.universe, long_parameter)	Good
241	r_duration.view()	Good
242	le1 = ctrl.Rule(humidity[DRY] & temperature[COLD], sprinkler_duration[S	Good
243	ture[COLD], sprinkler_duration[SHORT])	Good
244	le2 = ctrl.Rule(humidity[DRY] & temperature[COOL], sprinkler_duration[S	Good
245	ture[COOL], sprinkler_duration[SHORT])	Good
246	le3 = ctrl.Rule(humidity[DRY] & temperature[NORMAL],	Good
247	re[NORMAL], sprinkler_duration[MEDIUM])	Good
248	le4 = ctrl.Rule(humidity[DRY] & temperature[WARM], sprinkler_duration[L	Good
249	ture[WARM], sprinkler_duration[LONG])	Good
250	le5 = ctrl.Rule(humidity[DRY] & temperature[HOT], sprinkler_duration[LO	Good
251	ature[HOT], sprinkler_duration[LONG])	Good
252	le6 = ctrl.Rule(humidity[MOIST] & temperature[COLD],	Good
253	ture[COLD], sprinkler_duration[SHORT])	Good
254	le7 = ctrl.Rule(humidity[MOIST] & temperature[COOL],	Good
255	ture[COOL], sprinkler_duration[SHORT])	Good
256	le8 = ctrl.Rule(humidity[MOIST] & temperature[NORMAL],	Good
257	re[NORMAL], sprinkler_duration[MEDIUM])	Good
258	le9 = ctrl.Rule(humidity[MOIST] & temperature[WARM],	Good
259	ture[WARM], sprinkler_duration[MEDIUM])	Good
260	e10 = ctrl.Rule(humidity[MOIST] & temperature[HOT],	Good

#	String	Uniqueness
261	ature[HOT], sprinkler_duration[LONG])	Good
262	e11 = ctrl.Rule(humidity[WET] & temperature[COLD], sprinkler_duration[S	Good
263	ture[COLD], sprinkler_duration[SHORT])	Good
264	e12 = ctrl.Rule(humidity[WET] & temperature[COOL], sprinkler_duration[S	Good
265	ture[COOL], sprinkler_duration[SHORT])	Good
266	e13 = ctrl.Rule(humidity[WET] & temperature[NORMAL],	Good
267	re[NORMAL], sprinkler_duration[SHORT])	Good
268	e14 = ctrl.Rule(humidity[WET] & temperature[WARM], sprinkler_duration[M	Good
269	ture[WARM], sprinkler_duration[MEDIUM])	Good
270	e15 = ctrl.Rule(humidity[WET] & temperature[HOT], sprinkler_duration[LO	Good
271	ature[HOT], sprinkler_duration[LONG])	Good
272	le1, rule2, rule3, rule4, rule5,	Good
273	le3, rule4, rule5,	Good
274	le6, rule7, rule8, rule9, rule10,	Good
275	le8, rule9, rule10,	Good
276	11, rule12, rule13, rule14, rule15	Good
277	13, rule14, rule15	Good
278	trl = ctrl.ControlSystem(rule_list)	Good
279	sis = ctrl.ControlSystemSimulation(sprinkler_ctrl)	Good
280	r_analysis.input[TEMPRATURE] = 30	Good
281	r_analysis.input[HUMIDITY] = 65	Good
282	r_analysis.compute()	Good
283	r_analysis.output[SPRINKLER_DURATION, 2])) Min')	Good
284	_DURATION, 2])) Min')	Good
285	r_duration.view(sim=sprinkler_analysis)	Good
286	om sklearn.model_selection import train_test_split	Good
287	om sklearn.linear_model import LinearRegression	Good

#	String	Uniqueness
288	om sklearn.metrics import mean_squared_error	Good
289	er_dataset.csv')	Good
290	Duration'].plot(kind='hist', bins=20, title='Sprinkler_Duration')	Good
291	ind='hist', bins=20, title='Sprinkler_Duration')	Good
292	nes[['top', 'right',]].set_visible(False)	Good
293	'right',]].set_visible(False)	Good
294	matplotlib.pyplot as plt	Good
295	perature', data['Humidity'], c=data['Temperature'],	Good
296	Humidity'], c=data['Temperature'], cmap='jet')	Good
297	perature', cmap='jet')	Good
298	_Duration',axis=1)	Good
299	in, X_test, y_train, y_test = train_test_split(X, y,	Good
300	st_split(X, y, test_size=0.2)	Good
301	it(X_train, y_train)	Good
302	ed = model.predict(X_test)	Good
303	ror(y_test, y_predicted)	Good
304	ed Error:", mse)	Good
305	# Assigning feature names to the new data for prediction	Good
306	_data = pd.DataFrame([[21, 80]], columns=["Temperature",	Good
307	Frame([[21, 80]], columns=["Temperature", "Humidity"])	Good
308	mperature", "Humidity"])	Good
309	me = model.predict(new_data)	Good
310	humidity:", predicted_time[0])	Good
311	Humidity Temperature Fuzzy Logic Linear Regression	Good
312	35 o C 62.5 min 42.586 min	Good
313	75 min 51.079 min	Good
314	75 min 61.881 min	Good

#	String	Uniqueness
315	The study aimed to predict the duration required	Good
316	quirements, considering factors such as humidity and	Good
317	emperature. Fuzzy logic systems are well-suited for	Good
318	world data, making them applicable to irrigation scheduling.	Good
319	other hand, linear regression employed statistical modelling	Good
320	s humidity, temperature etc.) and the duration of sprinkler	Good
321	rature etc.) and the duration of sprinkler operation.	Good
322	operation. Linear regression assumes a linear relationship	Good
323	t variable, providing insights into the direct impact	Good
324	durations, as displayed in the table above. The fuzzy	Good
325	able above. The fuzzy logic approach demonstrated its	Good
326	scheduling, particularly when dealing with imprecise	Good
327	input data. However, the interpretability of fuzzy logic	Good
328	n contrast, linear regression offered a more straightforward	Good
329	n duration. While it may not capture the full complexity	Good
330	uzzy logic, it provides valuable insights into the relative	Good
331	n accuracy. Additionally, incorporating real-time data	Good
332	ditionally, incorporating real-time data from sensors	Good
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335	ssociation, 1969.	Good
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338	ion Center, 1985.	Good
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348	operation, evaluation. 1980.	Good
349	evaluation. 1980.	Good
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351	teral move, vol. 4. NSW Agriculture, 2016.	Good
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355	. Bliesner, J. L. Merriam, and L. Hardy, Selection of	Good
356	L. Merriam, and L. Hardy, Selection of irrigation methods	Good
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362	Stringham, "Irrigation principles and practices," Irrig.	Good
363	practices," Irrig. Princ. Pract. 4th Ed., 1980.	Good
364	rig. Princ. Pract. 4th Ed., 1980.	Good
365	ct. 4th Ed., 1980.	Good
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367	irrigation," Sci. Am., vol. 234, no. 6, pp. 90–99, 1976.	Good
368	" Sci. Am., vol. 234, no. 6, pp. 90–99, 1976.	Good

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370	pp. 90–99, 1976.	Good
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396	p. 211–221, 2018.	Good

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