#		Name	Duration	Start	Finish	Prede...	Resource Names	Early Start	Early Finish	Late Start	Late Finish	Total Slack
1		Start	0 days	1/16/26, 8:00AM	1/16/26, 8:00AM			1/16/26, 8:00AM	1/16/26, 8:00AM	1/16/26, 8:00AM	1/16/26, 8:00AM	0 days
2		**Initiation**	**3 days**	**1/16/26, 8:00AM**	**1/20/26, 5:00PM**			**1/16/26, 8:00AM**	**1/20/26, 5:00PM**	**1/16/26, 8:00AM**	**1/20/26, 5:00PM**	**0 days**
3		Project kick-off & objectives	0.5 days	1/16/26, 8:00AM	1/16/26, 1:00PM	1	Adrivid;Pushkal;Shagnik;Vai...	1/16/26, 8:00AM	1/16/26, 1:00PM	1/16/26, 8:00AM	1/16/26, 12:00PM	0 days
4		Scope definition & constraints	0.5 days	1/16/26, 1:00PM	1/16/26, 5:00PM	3	Adrivid;Pushkal;Shagnik;Vai...	1/16/26, 1:00PM	1/16/26, 5:00PM	1/16/26, 12:00PM	1/16/26, 5:00PM	0 days
5		Problem understanding & scope finalization	0.5 days	1/19/26, 8:00AM	1/19/26, 1:00PM	4	Pushkal	1/19/26, 8:00AM	1/19/26, 1:00PM	1/19/26, 8:00AM	1/19/26, 1:00PM	0 days
6		Project schedule & risk plan	0.5 days	1/19/26, 1:00PM	1/19/26, 5:00PM	5	Pushkal	1/19/26, 1:00PM	1/19/26, 5:00PM	1/19/26, 12:00PM	1/19/26, 5:00PM	0 days
7		System architecture & responsibility locking	1 day	1/20/26, 8:00AM	1/20/26, 5:00PM	6	Pushkal	1/20/26, 8:00AM	1/20/26, 5:00PM	1/20/26, 8:00AM	1/20/26, 5:00PM	0 days
8		**Requirement**	**5.5 days**	**1/21/26, 8:00AM**	**1/28/26, 1:00PM**			**1/21/26, 8:00AM**	**1/28/26, 1:00PM**	**1/21/26, 8:00AM**	**1/28/26, 12:00PM**	**0 days**
9		Stakeholder identification	1 day	1/21/26, 8:00AM	1/21/26, 5:00PM	7	Adrivid;Pushkal;Shagnik;Vai...	1/21/26, 8:00AM	1/21/26, 5:00PM	1/21/26, 8:00AM	1/21/26, 5:00PM	0 days
10		Functional requirements elicitation	1 day	1/22/26, 8:00AM	1/22/26, 5:00PM	9	Adrivid;Pushkal;Shagnik;Vai...	1/22/26, 8:00AM	1/22/26, 5:00PM	1/22/26, 8:00AM	1/22/26, 5:00PM	0 days
11		Non-functional requirements	1 day	1/23/26, 8:00AM	1/23/26, 5:00PM	10	Adrivid;Pushkal;Shagnik;Vai...	1/23/26, 8:00AM	1/23/26, 5:00PM	1/23/26, 8:00AM	1/23/26, 5:00PM	0 days
12		Requirement analysis & prioritization	1 day	1/26/26, 8:00AM	1/26/26, 5:00PM	11	Adrivid;Pushkal;Shagnik;Vai...	1/26/26, 8:00AM	1/26/26, 5:00PM	1/26/26, 8:00AM	1/26/26, 5:00PM	0 days
13		SRS documentation & approval	1.5 days	1/27/26, 8:00AM	1/28/26, 1:00PM	12	Adrivid;Pushkal;Shagnik;Vai...	1/27/26, 8:00AM	1/28/26, 1:00PM	1/27/26, 8:00AM	1/28/26, 12:00PM	0 days
14		**Design**	**3 days**	**1/28/26, 1:00PM**	**2/2/26, 1:00PM**			**1/28/26, 1:00PM**	**2/2/26, 1:00PM**	**1/28/26, 12:00PM**	**2/2/26, 12:00PM**	**0 days**
15		System Architecture Design	1.5 days	1/28/26, 1:00PM	1/29/26, 5:00PM	13	Pushkal	1/28/26, 1:00PM	1/29/26, 5:00PM	1/28/26, 12:00PM	1/29/26, 5:00PM	0 days
16		UI/UX and Dashboard / Backend Overview	0.5 days	1/30/26, 8:00AM	1/30/26, 1:00PM	15	Pushkal;Shagnik;Vaibhav	1/30/26, 8:00AM	1/30/26, 1:00PM	1/30/26, 8:00AM	1/30/26, 12:00PM	0 days
17		Model Overview and Dataset selection	0.5 days	1/30/26, 1:00PM	1/30/26, 5:00PM	16	Pushkal;Vaibhav	1/30/26, 1:00PM	1/30/26, 5:00PM	1/30/26, 12:00PM	1/30/26, 5:00PM	0 days
18		Hardware Overview and Component selection	0.5 days	2/2/26, 8:00AM	2/2/26, 1:00PM	17	Adrivid;Pushkal	2/2/26, 8:00AM	2/2/26, 1:00PM	2/2/26, 8:00AM	2/2/26, 12:00PM	0 days
19		**Development**	**29 days**	**2/2/26, 1:00PM**	**3/13/26, 1:00PM**			**2/2/26, 1:00PM**	**3/13/26, 1:00PM**	**2/2/26, 12:00PM**	**3/27/26, 1:00PM**	**10 days**
20		**Hardware and Embedded**	**25 days**	**2/2/26, 1:00PM**	**3/9/26, 1:00PM**			**2/2/26, 1:00PM**	**3/9/26, 1:00PM**	**2/2/26, 12:00PM**	**3/9/26, 12:00PM**	**0 days**
21		CT sensor selection & wiring	2 days	2/2/26, 1:00PM	2/4/26, 1:00PM	18	Adrivid	2/2/26, 1:00PM	2/4/26, 1:00PM	2/2/26, 12:00PM	2/4/26, 12:00PM	0 days
22		Burden resistor & safety validation	2 days	2/4/26, 1:00PM	2/6/26, 1:00PM	21	Adrivid	2/4/26, 1:00PM	2/6/26, 1:00PM	2/4/26, 12:00PM	2/6/26, 12:00PM	0 days
23		ESP32 ADC sampling firmware	3 days	2/6/26, 1:00PM	2/11/26, 1:00PM	22	Adrivid	2/6/26, 1:00PM	2/11/26, 1:00PM	2/6/26, 12:00PM	2/11/26, 12:00PM	0 days
24		Wi-Fi, MQTT publish & relay control	2 days	2/11/26, 1:00PM	2/13/26, 1:00PM	23	Adrivid;Pushkal	2/11/26, 1:00PM	2/13/26, 1:00PM	2/11/26, 12:00PM	2/13/26, 12:00PM	0 days
25		Fog Received Critical System Actuation	2 days	3/5/26, 1:00PM	3/9/26, 1:00PM	52	Adrivid;Pushkal	3/5/26, 1:00PM	3/9/26, 1:00PM	3/5/26, 12:00PM	3/9/26, 12:00PM	0 days
26		**Fog(Phone) Logic & System Behavior**	**27 days**	**2/2/26, 1:00PM**	**3/11/26, 1:00PM**			**2/2/26, 1:00PM**	**3/11/26, 1:00PM**	**2/13/26, 12:00PM**	**3/27/26, 1:00PM**	**12 days**
27		MQTT Receive Data from Car	2 days	2/2/26, 1:00PM	2/4/26, 1:00PM	18	Pushkal	2/2/26, 1:00PM	2/4/26, 1:00PM	3/18/26, 12:00PM	3/20/26, 12:00PM	32 days
28		Feature extraction (RMS, FFT, THD)	2 days	2/4/26, 1:00PM	2/6/26, 1:00PM	27	Pushkal	2/4/26, 1:00PM	2/6/26, 1:00PM	3/20/26, 12:00PM	3/24/26, 12:00PM	32 days
29		JSON schema & MQTT topic design	3 days	2/6/26, 1:00PM	2/11/26, 1:00PM	28	Pushkal	2/6/26, 1:00PM	2/11/26, 1:00PM	3/24/26, 12:00PM	3/27/26, 1:00PM	32 days
30		Fog decision engine & safety logic	2 days	2/13/26, 1:00PM	2/17/26, 1:00PM	24	Pushkal;Vaibhav	2/13/26, 1:00PM	2/17/26, 1:00PM	2/13/26, 12:00PM	2/17/26, 12:00PM	0 days
31		Offline Mode Predictive Repair Suggestions Logic	2 days	3/9/26, 1:00PM	3/11/26, 1:00PM	25	Adrivid;Pushkal	3/9/26, 1:00PM	3/11/26, 1:00PM	3/9/26, 12:00PM	3/11/26, 12:00PM	0 days
32		**AI and Data Handling**	**28 days**	**2/2/26, 1:00PM**	**3/12/26, 1:00PM**			**2/2/26, 1:00PM**	**3/12/26, 1:00PM**	**2/17/26, 12:00PM**	**3/27/26, 1:00PM**	**11 days**
33		Dataset preparation & labeling	2 days	2/2/26, 1:00PM	2/4/26, 1:00PM	18	Vaibhav	2/2/26, 1:00PM	2/4/26, 1:00PM	3/18/26, 12:00PM	3/20/26, 12:00PM	32 days
34		Model Selection and Ouput Schema Design	2 days	2/4/26, 1:00PM	2/6/26, 1:00PM	33	Vaibhav	2/4/26, 1:00PM	2/6/26, 1:00PM	3/20/26, 12:00PM	3/24/26, 12:00PM	32 days
35		Feature-based ML model training	3 days	2/6/26, 1:00PM	2/11/26, 1:00PM	34	Vaibhav	2/6/26, 1:00PM	2/11/26, 1:00PM	3/24/26, 12:00PM	3/27/26, 1:00PM	32 days
36		Fog(Phone) AI (TFLite) optimization	2 days	2/17/26, 1:00PM	2/19/26, 1:00PM	30	Pushkal;Vaibhav	2/17/26, 1:00PM	2/19/26, 1:00PM	2/17/26, 12:00PM	2/19/26, 12:00PM	0 days
37		Model validation & accuracy report	1 day	3/11/26, 1:00PM	3/12/26, 1:00PM	31	Vaibhav	3/11/26, 1:00PM	3/12/26, 1:00PM	3/11/26, 12:00PM	3/12/26, 12:00PM	0 days
38		**Backend Development**	**21 days**	**2/2/26, 1:00PM**	**3/3/26, 1:00PM**			**2/2/26, 1:00PM**	**3/3/26, 1:00PM**	**2/19/26, 12:00PM**	**3/19/26, 12:00PM**	**12 days**
39		Server and Database Setup	1 day	2/2/26, 1:00PM	2/3/26, 1:00PM	18	Shagnik	2/2/26, 1:00PM	2/3/26, 1:00PM	3/18/26, 12:00PM	3/19/26, 12:00PM	32 days
40		Database Model	1 day	2/19/26, 1:00PM	2/20/26, 1:00PM	36	Pushkal;Shagnik	2/19/26, 1:00PM	2/20/26, 1:00PM	2/19/26, 12:00PM	2/20/26, 12:00PM	0 days
41		AI Model Deployment and Backend Integration	1 day	2/20/26, 1:00PM	2/23/26, 1:00PM	40	Shagnik;Vaibhav	2/20/26, 1:00PM	2/23/26, 1:00PM	2/20/26, 12:00PM	2/23/26, 12:00PM	0 days
42		**Endpoint creation**	**6 days**	**2/23/26, 1:00PM**	**3/3/26, 1:00PM**			**2/23/26, 1:00PM**	**3/3/26, 1:00PM**	**2/23/26, 12:00PM**	**3/3/26, 12:00PM**	**0 days**
43		/upload (fog data to cloud upload endpoint)	2 days	2/23/26, 1:00PM	2/25/26, 1:00PM	41	Pushkal;Shagnik	2/23/26, 1:00PM	2/25/26, 1:00PM	2/23/26, 12:00PM	2/25/26, 12:00PM	0 days
44		/analyse(ai model analyse endpoint)	2 days	2/25/26, 1:00PM	2/27/26, 1:00PM	43	Shagnik;Vaibhav	2/25/26, 1:00PM	2/27/26, 1:00PM	2/25/26, 12:00PM	2/27/26, 12:00PM	0 days
45		Miscellaneous Enpoints	2 days	2/27/26, 1:00PM	3/3/26, 1:00PM	44	Adrivid;Pushkal;Shagnik;Vi...	2/27/26, 1:00PM	3/3/26, 1:00PM	2/27/26, 12:00PM	3/3/26, 12:00PM	0 days
46		**Frontend Development**	**28 days**	**2/3/26, 1:00PM**	**3/13/26, 1:00PM**			**2/3/26, 1:00PM**	**3/13/26, 1:00PM**	**3/3/26, 12:00PM**	**3/27/26, 1:00PM**	**10 days**
47		Web Dashboard	2 days	2/3/26, 1:00PM	2/5/26, 1:00PM	39	Shagnik	2/3/26, 1:00PM	2/5/26, 1:00PM	3/19/26, 12:00PM	3/23/26, 12:00PM	32 days
48		Android UI	2 days	2/5/26, 1:00PM	2/9/26, 1:00PM	47	Shagnik	2/5/26, 1:00PM	2/9/26, 1:00PM	3/23/26, 12:00PM	3/25/26, 12:00PM	32 days
49		User UI	1 day	2/9/26, 1:00PM	2/10/26, 1:00PM	48	Shagnik	2/9/26, 1:00PM	2/10/26, 1:00PM	3/25/26, 12:00PM	3/26/26, 12:00PM	32 days
50		Dealership UI	1 day	2/10/26, 1:00PM	2/11/26, 1:00PM	49	Shagnik	2/10/26, 1:00PM	2/11/26, 1:00PM	3/26/26, 12:00PM	3/27/26, 1:00PM	32 days
51		Event visualization & logs	1 day	3/3/26, 1:00PM	3/4/26, 1:00PM	45	Pushkal;Shagnik	3/3/26, 1:00PM	3/4/26, 1:00PM	3/3/26, 12:00PM	3/4/26, 12:00PM	0 days
52		Report Generation - Visual Logs for User	1 day	3/4/26, 1:00PM	3/5/26, 1:00PM	51	Pushkal;Shagnik;Vaibhav	3/4/26, 1:00PM	3/5/26, 1:00PM	3/4/26, 12:00PM	3/5/26, 12:00PM	0 days
53		Digital Twin Visualization	1 day	3/12/26, 1:00PM	3/13/26, 1:00PM	37	Shagnik	3/12/26, 1:00PM	3/13/26, 1:00PM	3/12/26, 12:00PM	3/13/26, 12:00PM	0 days
54		**Integration**	**4 days**	**3/13/26, 1:00PM**	**3/19/26, 1:00PM**			**3/13/26, 1:00PM**	**3/19/26, 1:00PM**	**3/13/26, 12:00PM**	**3/19/26, 12:00PM**	**0 days**
55		Device to Fog Module Integration	1 day	3/13/26, 1:00PM	3/16/26, 1:00PM	53	Adrivid;Pushkal	3/13/26, 1:00PM	3/16/26, 1:00PM	3/13/26, 12:00PM	3/16/26, 12:00PM	0 days
56		Fog to Cloud Integration	1 day	3/16/26, 1:00PM	3/17/26, 1:00PM	55	Pushkal;Shagnik;Vaibhav	3/16/26, 1:00PM	3/17/26, 1:00PM	3/16/26, 12:00PM	3/17/26, 12:00PM	0 days
57		DB to Backend Intergation	0.5 days	3/17/26, 1:00PM	3/17/26, 5:00PM	56	Pushkal;Shagnik;Vaibhav	3/17/26, 1:00PM	3/17/26, 5:00PM	3/17/26, 12:00PM	3/17/26, 5:00PM	0 days
58		Model Integration	0.5 days	3/18/26, 8:00AM	3/18/26, 1:00PM	57	Pushkal;Shagnik;Vaibhav	3/18/26, 8:00AM	3/18/26, 1:00PM	3/18/26, 8:00AM	3/18/26, 12:00PM	0 days
59		Frontend to Backend Integration	0.5 days	3/18/26, 1:00PM	3/18/26, 5:00PM	58	Shagnik	3/18/26, 1:00PM	3/18/26, 5:00PM	3/18/26, 12:00PM	3/18/26, 5:00PM	0 days
60		Hardware Integration	0.5 days	3/19/26, 8:00AM	3/19/26, 1:00PM	59	Adrivid;Pushkal	3/19/26, 8:00AM	3/19/26, 1:00PM	3/19/26, 8:00AM	3/19/26, 12:00PM	0 days
61		**Testing**	**4 days**	**3/19/26, 1:00PM**	**3/25/26, 1:00PM**			**3/19/26, 1:00PM**	**3/25/26, 1:00PM**	**3/19/26, 12:00PM**	**3/25/26, 12:00PM**	**0 days**
62		System and Integration Testing	1 day	3/19/26, 1:00PM	3/20/26, 1:00PM	60	Adrivid;Pushkal;Shagnik;Vai...	3/19/26, 1:00PM	3/20/26, 1:00PM	3/19/26, 12:00PM	3/20/26, 12:00PM	0 days
63		Bug fixing and Regression Testing	1 day	3/20/26, 1:00PM	3/23/26, 1:00PM	62	Adrivid;Pushkal;Shagnik;Vai...	3/20/26, 1:00PM	3/23/26, 1:00PM	3/20/26, 12:00PM	3/23/26, 12:00PM	0 days
64		Azure Deployment environment setup	1 day	3/23/26, 1:00PM	3/24/26, 1:00PM	63	Pushkal;Shagnik;Vaibhav	3/23/26, 1:00PM	3/24/26, 1:00PM	3/23/26, 12:00PM	3/24/26, 12:00PM	0 days
65		Final configuration & smoke testing	1 day	3/24/26, 1:00PM	3/25/26, 1:00PM	64	Adrivid;Pushkal;Shagnik;Vai...	3/24/26, 1:00PM	3/25/26, 1:00PM	3/24/26, 12:00PM	3/25/26, 12:00PM	0 days
66		**Closure**	**2 days**	**3/25/26, 1:00PM**	**3/27/26, 1:00PM**			**3/25/26, 1:00PM**	**3/27/26, 1:00PM**	**3/25/26, 12:00PM**	**3/27/26, 12:00PM**	**0 days**

		Name	Duration	Start	Finish	Prede...	Resource Names	Early Start	Early Finish	Late Start	Late Finish	Total Slack
67		User training & documentation	1 day	3/25/26, 1:00PM	3/26/26, 1:00PM	65	Adrivid;Pushkal;Shagnik;Vai...	3/25/26, 1:00PM	3/26/26, 1:00PM	3/25/26, 12:00PM	3/26/26, 12:00PM	0 days
68		Project closure & handover	1 day	3/26/26, 1:00PM	3/27/26, 1:00PM	67	Adrivid;Pushkal;Shagnik;Vai...	3/26/26, 1:00PM	3/27/26, 1:00PM	3/26/26, 12:00PM	3/27/26, 12:00PM	0 days
69		Finish	0 days	3/27/26, 1:00PM	3/27/26, 1:00PM	68		3/27/26, 1:00PM	3/27/26, 1:00PM	3/27/26, 12:00PM	3/27/26, 1:00PM	0 days