	PTRAIL Tempo	ral Functions		
Sr. No	Function Name	PyMove	MovingPandas	Note
1	create_date_column()	generate_date_features()		
2	create_time_column()	generate_hour_features()		
3	create_day_of_week_column()	generate_day_of_the_week_features()		
4	create_weekend_indicator_column()	generate_weekend_features()		
5	create_time_of_day_column()	generate_time_of_day_features()		
6	get_traj_duration()	time_interval()		The time_interval() feature in PyMove just finds the interval of the whole dataset instead of finding it for individual trajectories.
7	get_start_time()		get_start_time()	
8	get_end_time()		get_end_time()	

	PTRAIL Spatial Functions			
Sr. No	Function Name	PyMove	MovingPandas	Note
1	get_bounding_box()	get_bbox()	get_bbox()	
2	get_start_location()		get_start_location()	
3	get_end_location()		get_end_location()	
4	create_distance_between_consecutive_column()	generate_dist_features()		
5	create_distance_from_start_column()			
6	create_distance_travelled_by_date_and_traj_id()		-	
7	create_point_within_range_column()	-	-	
8	create_distance_from_given_point_column()		-	
9	create_speed_from_prev_column()	generate_speed_features()	add_speed()	
10	create_acceleration_from_prev_column()			
11	create_jerk_from_prev_column()			
12	create_bearing_column()		-	
13	create_bearing_rate_column()		azimuth()	
14	create_rate_of_bearing_rate_column()			
15	get_distance_travelled_by_traj_id()		get_length()	
16	get_number_of_locations()		-	

PTRAIL Filters				
Sr. No	Function Name	PyMove	MovingPandas	Note
1	remove_duplicates()	drop_duplicates(), clean_consecutive_duplicates()	-	
2	filter_by_traj_id()	by_id()		
3	get_bounding_box_by_radius()	get_bbox_by_radius()	-	
4	filter_by_bounding_box()	by_bbox()		
5	filter_by_date()	-	filter()	In MovingPandas, the filter() function is just a general filter which takes in a column and then a specific value and then filters out only the exact matches of the given specific value.
6	filter_by_datetime()	by_datetime()	-	
7	filter_by_max_speed()			
8	filter_by_min_speed()	-		
9	filter_by_min_consecutive_distance()	-	-	
10	filter_by_max_consecutive_distance()	-		
11	filter_by_max_distance_and_speed()	-	-	
12	filter_by_min_distance_and_speed()	-		
13	filter_outliers_by_consecutive_distance()	clean_gps_jumps_by_distance()	-	
14	filter_outliers_by_consecutive_speed()	clean_gps_nearby_points_by_speed()		
15	remove_trajectories_with_less_points()	clean_trajectories_with_few_points()	-	
16	hampel_outlier_detection()			

PTRAIL Interpolation				
Sr. No	Interpolation Type	PyMove	MovingPandas	Note
1	Linear Interpolation	Linear Interpolation is present.	Linear Interpolation is present.	
2	Cubic Interpolation			
3	Random-Walk Interpolation			
4	Kinematic Interpolation	-		