

VandiGO: Revolutionising Ride-Booking

Seamlessly connecting riders and drivers with cutting-edge technology.



Introduction

Built for the Future of Transport

VandiGO is a comprehensive web-based ride booking system, expertly crafted with HTML, CSS, JavaScript, and Python. It delivers a multi-page experience through dynamic section rendering, catering to two distinct user roles: Users and Drivers.

Rider Experience

Easy Access

Login & Registration: Users can log in using their phone number or register for a new account with just a name and phone number.

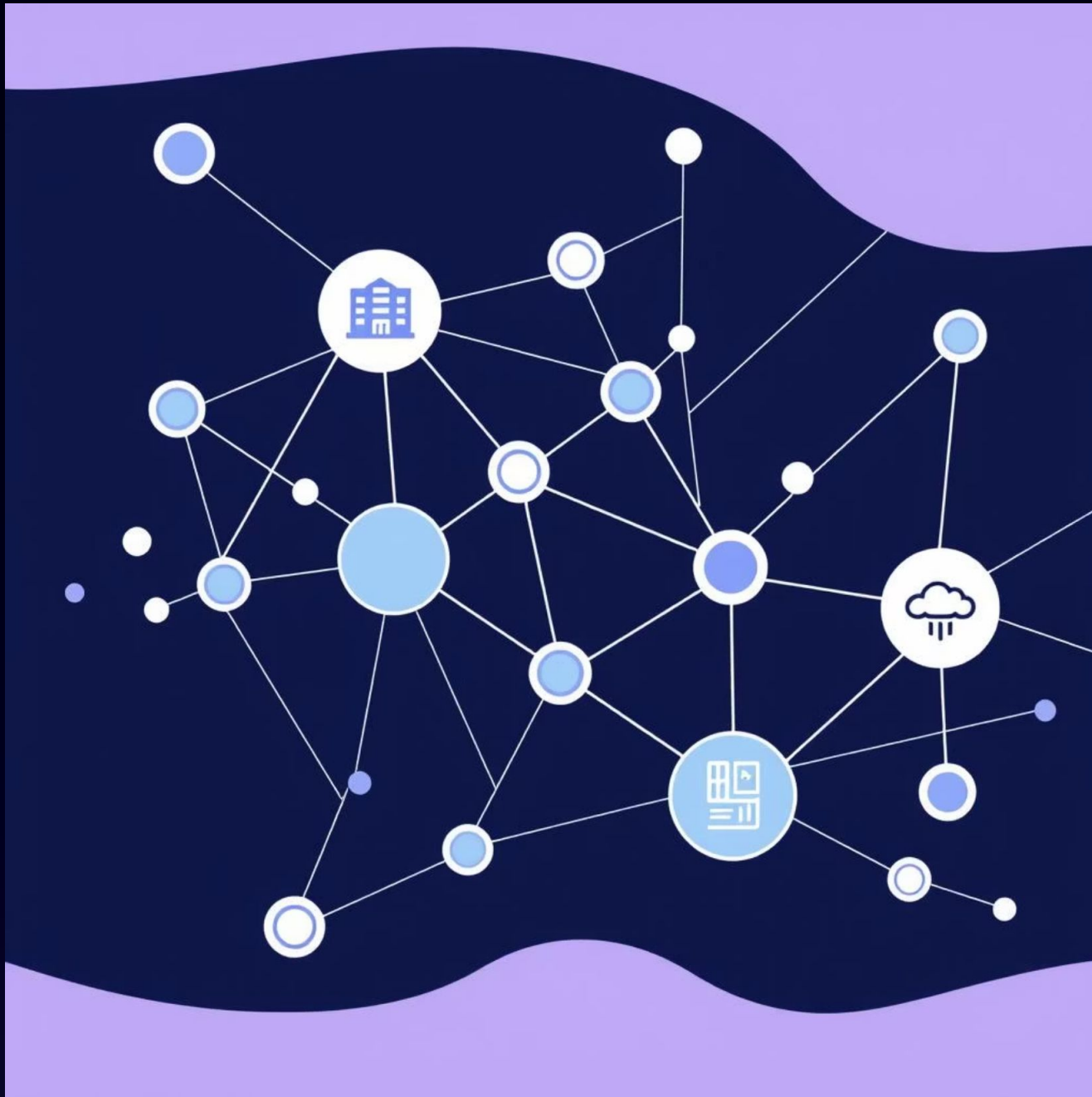
Personalised Service

Address Entry: New users can optionally add a home address during registration or later during login, ensuring convenience without obligation.

Effortless Booking

Seamless Selection: Choose your preferred vehicle type, then easily input pickup and drop-off locations for a swift booking.

AI-Powered Pricing & Routing



Introducing Kannamma

Our AI regression model, **Kannamma**, is the brain behind every trip. It calculates the optimal route, distance, estimated price, and arrival time by analysing:

- Over 30,000 real-time traffic records
- Current weather conditions

Kannamma also intelligently assigns the best-suited driver, ensuring efficiency and reliability.

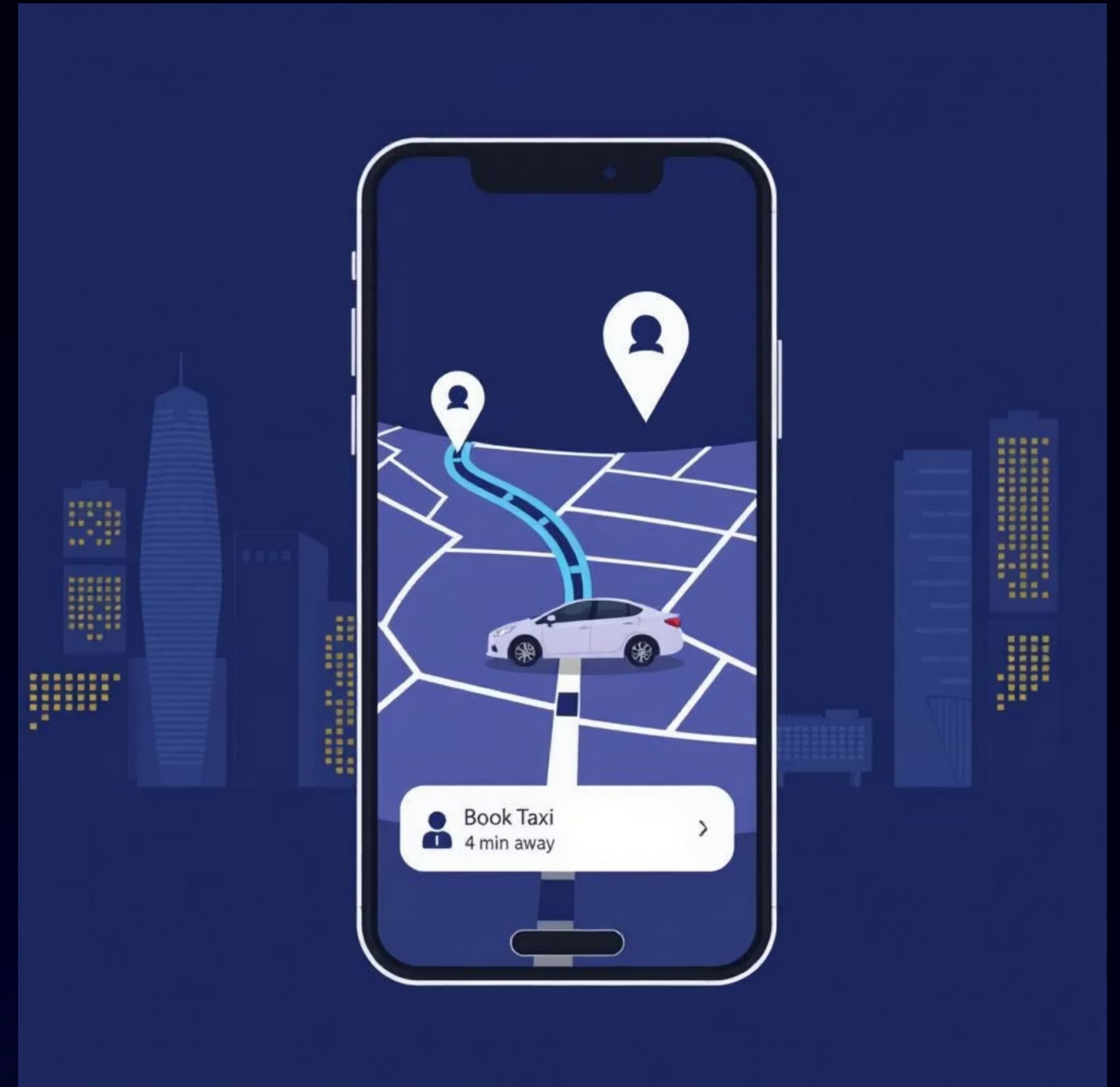
Real-Time Tracking

Monitor Your Ride

Once booked, users gain access to a dynamic live map, powered by **Leaflet.js**. This feature provides:

- Live driver location as they approach pickup
- Visualisation of the full trip route

Stay informed and confident throughout your journey.



Driver Workflow: At a Glance

1

Secure Access

Dedicated login page requiring
User ID and password for drivers.

2

Comprehensive Overview

Dashboard displays completed
trips, pending requests, and a live
clock.

3

Efficient Management

View new requests,
accept/decline, and see pickup
routes on an integrated map.

Driver Workflow: On the Road

→ **In-Progress Trip**

After pickup, drivers can easily update trip status and access the route to the final destination on the map.

→ **Trip Completion**

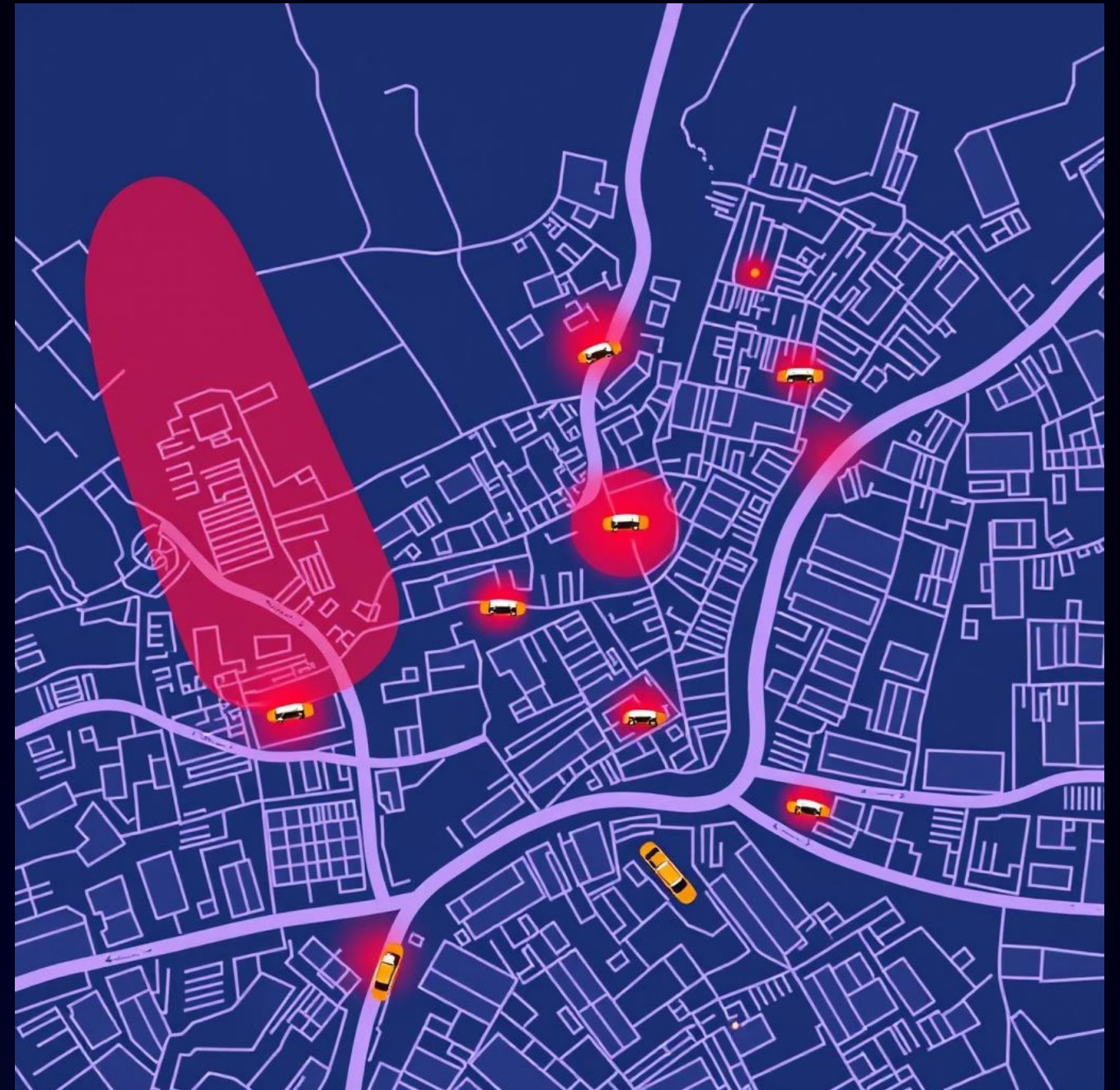
Mark trips as complete, automatically updating their 'Completed Trips' list for seamless record-keeping.

Optimising Driver Efficiency

Demand Prediction

Our intelligent system utilises machine learning to predict areas of high demand.

This allows us to suggest optimal parking locations for drivers, maximising their chances of getting assigned to a ride quickly and efficiently.



Key Advantages



User-Centric Design

Intuitive interfaces for both riders and drivers.



AI-Powered Precision

Kannamma ensures optimal routes, pricing, and assignments.



Real-Time Visibility

Live tracking keeps users informed and confident.



Enhanced Efficiency

Demand prediction boosts driver productivity.

How does it suit as a solution to our Problem Statement

VandiGO directly addresses common challenges in ride-booking by delivering key features that satisfy critical constraints for an efficient, transparent, and user-centric platform.

→ **AI-Powered Optimization**

Our **Kannamma AI regression model** calculates optimal routes, pricing, and assigns the best-suited driver, ensuring efficiency and cost-effectiveness for every trip.

→ **Enhanced Driver Productivity**

Through **demand prediction**, VandiGO suggests optimal parking locations and provides an intuitive workflow, maximising driver earnings and operational efficiency.

→ **Real-Time**

Transparency **driver tracking** and full trip route visualization, eliminating uncertainty and enhancing trust from booking to drop-off.

→ **Seamless User Experience**

From easy registration and personalized address entry to effortless booking, VandiGO offers a **user-centric design** that prioritizes convenience for all riders.

Drive Your Future with VandiGO

Experience the next generation of ride-booking.

