

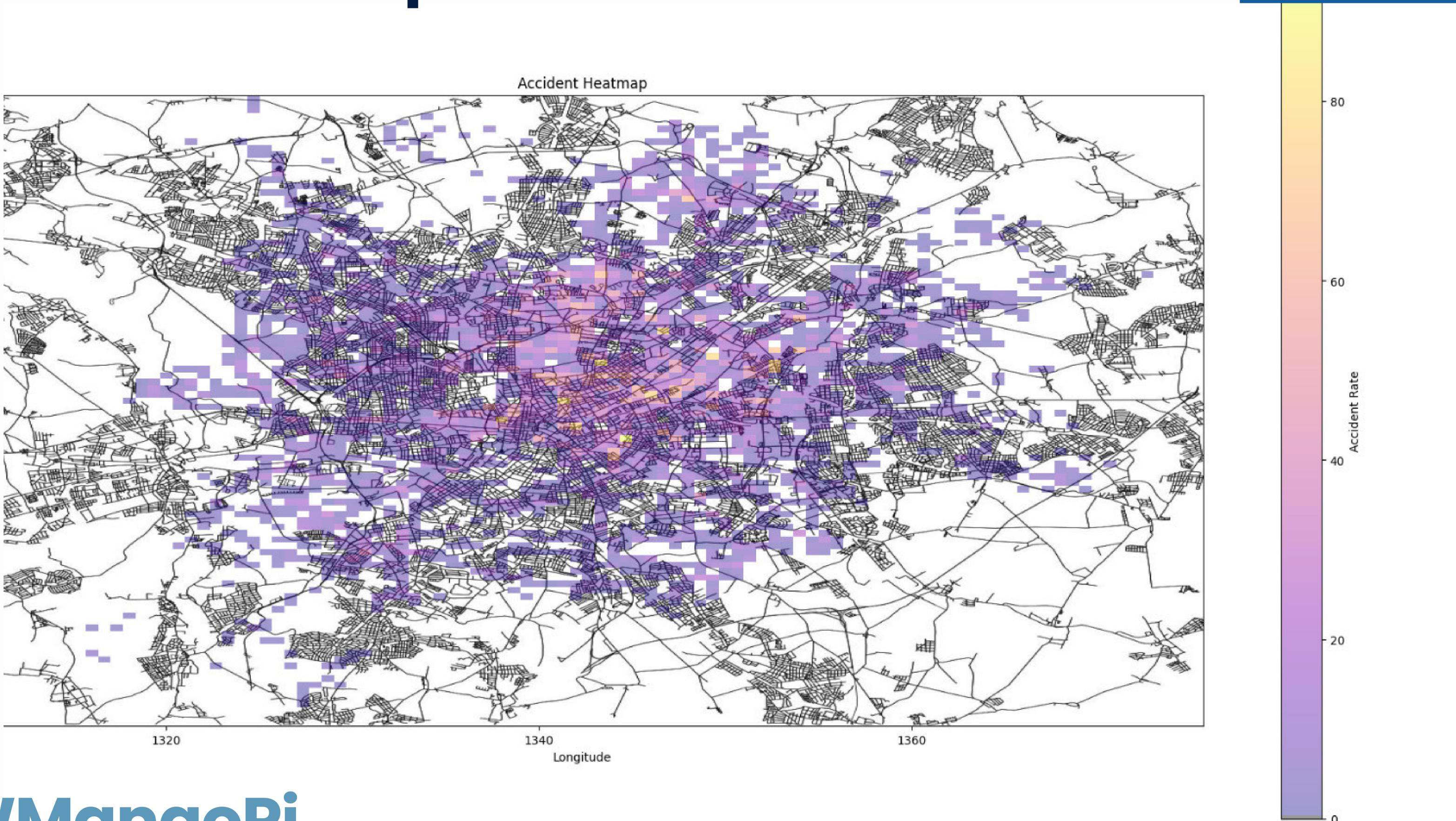
Hackathon Challenge 1

By: Shaikh, Nakul, Laudo, Senda, Nicola



HSRW MangoPi

Heat Map of Accidents in Berlin



Solution

- device for individual usage to improve safety
- warning system
- combination of real life data and statistical risk assessment

01

Risk Map : location-dependent risk

- static map that shows high-risk areas
- total numbers of accidents & severity
- map divided into 1000 cells

02

Sensor: location independent risk

- real-time data
- lightning conditions
- road conditions
- humidity + temperature

03

Machine Learning Model

- linear regression model
- environmental variables from sensors
- location and time-specific data as parameters

04

Policy recommendations

- usage of heat map
- combination with other data
- further data analysis needed

How? - methods

Model Explanation + live demo