Name: kallipriya v

Dpt: AIDS

Roll no: 7193322AD048

Real world applications of data science.

1) Smart Traffic management:

How Data science used:

* Real time traffic monitoring:
we real-time traffic data, Gps tracking
and historical Patterns to optimize traffic
signals and reduce congenstion.

* machine learning models Predict Peak traffic
hours and suggest alternate routes for
better flow.

2) Personalized mental health care.

AI- Powered Chatbots and apps
analyze user inputs to detect
early signs of anxiety or depression.

Natural language Processing examines
speech Patterns and technic text
inputs to acewas mental well-being.

3) smart farming and precision Agriculture.

sensors and drones collect data on soil
health, moisture levels, and crop growth
to optimize farming techniques.

4) Fake news detection.

NLP and sentiment analysis identify
misleading or fabricated news articles.
Deep learning models cross-reference
multiple sources to validate information
authenticity.

5) personalized learning in EdTech.

Adaptive learning platforms analyse
student suggest relevant courses,
exercise, and study materials.