ClearMotion

Multiple drive sessions have been collected while driving different vehicles in a section of the I-93 interstate highway in Massachusetts. The data can be found in the attached folder and are given in Excel format. Each file contains data for each drive session recorded with a different vehicle in different time. The session ID is a 5-digit number reported within each file name. After parsing the data in MATLAB, R, or Python, based on your preference, please address the following questions:

a) **What is the mean and standard deviation of the vehicle speed for each drive session?**
b) **Which are the three sessions with the highest mean value of vehicle speed? How you can make sure that your answer is correct?**
c) **You want to understand whether drivers have any driving patterns in terms of vehicle speed along this I-93 road path. Are there any patterns in vehicle speed along this road? If so, for which segments of road? (Use GPS coordinates as a means for localization along the road path). Please use graphs to demonstrate your results and support your conclusion in a comprehensive manner.**

Useful Information about .csv file:

Variable Name	Description
time_offset	Recorded time [sec]
speed	Vehicle speed [m/sec]
latitude	GPS latitude coordinate
longitude	GPS longitude coordinate

Please write your answers for a, b, and c in a Jupyter notebook or Word document.