Data Visualization Student Assistant IV

Visualization task for applicants

Please use the data in the file “RecruitmentData.csv” to respond to the following requests. The data dictionary is on the second page of this document.

You may use any software to create the visualizations. There are many possible correct responses. Your responses will be judged on how well you follow the directions, whether the figures accurately represent the data you were given, and the clarity and usefulness of the figures you create. Copy and paste each figure under the relevant instruction in this document and make sure to label all figures appropriately. I recommend pasting “as image” to avoid distortions.

Please send your response within a week to ensure consideration for the position.

1. Create an example of a table you could use to check the quality of the data (looking for errors and/or missing data). Describe any problems you observe or explain how you know there are no problems in 1-2 sentences.
2. The Vice Provost for Undergraduate Education wants to know how the student body has changed over time. Create two graphs addressing this question.
3. The Associate Dean for the College of Biological Sciences is concerned that their students may take longer to graduate than students in other colleges. Create a graph confirming or contradicting this theory.

Data dictionary

admit\_term: The term in which the student was admitted to UC Davis. The first four characters represent the year, and the last two represent a month in the quarter they were admitted. For example, “201210” means the student was admitted in fall (10 represents October) of 2012.

admit\_level: Whether the student was admitted as a first-year student (“Freshman”) or a transfer student (“Transfer”).

gender: F is female, M is male, N or NR is other or prefer not to state.

ethn\_desc: Ethnic group.

is\_urm: Whether the ethnic group is defined as “under-represented”. 1 is yes, 0 is no.

first\_generation: Whether one of the student’s parents graduated from a four-year college. 1 is first-generation, meaning neither of the student’s parents has a four-year degree. 0 is not first-generation.

low\_income: Whether the student’s self-reported income and family size categorize them as under 1.5 times the federal poverty line.

first\_term\_college: The college into which the student was first admitted at UC Davis. LS is Letters and Sciences; BI is Biological Sciences; AE is Agriculture and Environmental Science; EN is Engineering.

first\_degree\_term: The term in which the student received their degree. See admit\_term for format.

graduation\_college: The college in which the student earned their degree. See first\_term\_college for categories.

id: Unique identifier for each student.