

# Probability and Statistics - Math 271

## Homework - 1

**Question:** Describe a hypothetical problem in the area of Aerospace engineering which would benefit from the use of statistical techniques. Propose a solution methodology. \* Do not perform any literature/web search. I am expecting your original ideas only. You will get full mark as long as you submit your own ideas.

**Solution:** The problem in the area of Computer Engineering which I thought is determining the flight ticket prices efficiently. I know most of the airline companies use some complex algorithms considering variety of parameters like empty seat numbers, remaining time to flight etc. We can use statistical techniques, probability approaches, and maybe machine learning applications to create an automated system that returns the prices by analyzing the user profiles, and past flight information.

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