

Lab 4 - Cloud Data

Stat 215A, Fall 2014

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1 Introduction

In this Lab, our mission is to predict cloud in the polar regions using a group of selected features. Firstly, we carry out EDA to explore feature distribution and their potential correlations. Then based on EDA observation, three features are selected as discriminators of cloud detection. Secondly, variety of statistical and non-probabilistic models are fitted to the data and compared with each other with both visual and quantitative methods. Finally, we try to diagnose fitted models and explore error patterns for possible model improvement.

2 EDA

3 Modeling

3.1 Feature Selection

3.2 Classification Model Exploration

3.3 Model Assessment