CPS 4801 Final Project Milestone Report

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I. OVERVIEW

We have trained both models, a decision tree and resnet-50 deep learning pre-trained model. We then evaluated, and measured data uncertainty using the entropy method for both models. Currently only have values, need to analyze and extrapolate meaning from the performance output and put into final paper.

II. DECISION TREE RESULTS

A. Evaluation

Confusion Matrix: [[271 70] [88 231]] Precision: 0.7674418604651163 Recall: 0.7241379310344828

B. Uncertainty

Entropy: 0.9944220705380191

III. DEEP LEARNING RESULTS

A. Evaluation

Confusion Matrix: [[305 14] [75 266]]

Precision: 0.95

Recall: 0.7800586510263929

B. Uncertainty

Average entropy: 0.1231112971547104