

## ABSTRACT

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*This research aims to design an Electronic Nose (E-Nose) application and compile metadata for gambung green tea aroma dataset. The E-Nose application is designed to assist users in analyzing the aroma of gambung green tea and predicting its quality. Metadata was created to document important information from the gambung green tea aroma dataset, such as data type, data format, and the meaning of each column. This research started by analyzing user needs and studying E-Nose technology. Then, metadata was created for the gambung green tea aroma dataset. Next, an E-Nose application mockup was designed using Figma. This mockup was then implemented using Python. The results of this study show that the E-Nose application can be used to analyze the aroma of gambung green tea and predict its quality quite accurately. The metadata created can also help users in understanding important information from the gambung green tea aroma dataset.*

*Keywords: Electronic Nose (E-Nose), Gambung Green Tea, Quality Prediction, Interface Design, Dataset, Metadata*