Nisha Sharma

GIS Tool for Bay Area Agriculture

Abstract

The purpose of this thesis is to develop a GIS (Geographic Information Systems) tool to demonstrate Bay Area agriculture. The map shows crops yield in each Bay Area Counties. Crop data is shown on the map in the form of shape files. The users also have ability to click on any County to learn more on its agriculture. There are custom menus and tools that add more information to it. The application has been developed using Java along with Map Objects with Java Objects (MOJO). The user interface of the application is very user friendly. The multimedia content adds more information on crops, pests, imports and exports. All the information is based on the data provided by County Agricultural Departments and Port of Oakland.

Thesis Committee

Carl Eckberg, Thesis Chair, Department of Computer Science
Tao Xie, Department of Computer Science
Carmelo Interlando, Department of Mathematics & Statistics