

## **Project Step 1 - Identifying a Problem (Data Mining Task)**

### **Problem Description**

The goal is to create a Phoenix metropolitan, Arizona, school classifier with the goal of dividing schools into high- and low-performing groups according to their math and English language arts test results. For the purpose of making educated decisions and focusing on specific initiatives to improve academic performance in Phoenix metropolitan, the project aims to provide insights to the community, parents, and local authorities.

### **Purpose and Benefit**

Project's goal is to develop a reliable school classifier that is adapted to Phoenix, Arizona's educational environment. With a focus on accurately classifying schools as high- or low-performing based on their Math and English Language Arts (ELA) scores, we hope to offer parents, community members, and local education authorities' invaluable information. This classification system is intended to provide stakeholders with a sophisticated understanding of academic performance. It is based on Phoenix metropolitan's distinctive features and educational setting. The advantages also accrue to local policymakers, who can use the data to launch focused projects meant to raise Phoenix metropolitan's educational standards and general academic achievement. Parents receive a thorough understanding of academic performance, which helps them make educated decisions regarding their kids' education. A data-driven strategy that encourages teamwork to improve the educational experience for all Phoenix metropolitan students also benefits the larger community. Essentially, the goal of our project is to serve as a catalyst for improvement, encouraging Phoenix metropolitan's educational community to become more knowledgeable and involved.