Project Summary

Rahul Deb

Indian Institute of Technology

What I am attempting to do is to model evolution using basic machines. The machines in question are Turing machines which are basic models of computation as suggested by Alan Turing. The task assigned to the machines is to learn a binary function over a finite number of generations. The machines have limited computation power in as much as the fact that their states have been limited. Thus they need to co-operate in order to solve the problem. We will be studying the solutions which the machines devise. The results derived would be illustrative in as much as they could model anything from evolution in biological terms to economic agents. I am working with John Miller on this project.