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Official Project

Object-class Recognizer (ongoing)

- Partial occlusion tolerant
- Implemented using Intel's open-source computer vision library OpenCV
- Multi-view virtual training planned for future

Personal Projects

Chunky

- Download manager implemented in Python
- Failure tolerant and fully automated
- Downloads in "chunks" of specified size using the **Range** header defined in the HTTP protocol

Trivia: I made Chunky so that I can bypass the campus proxy server download limit of 20 MB per file.

Dr. Musical Wave (or Dr. Music)

- A music socialization robot for Google Wave showcased on the samples gallery and featured on many blogs
 - Users can find out current track, music compatibility and artists similar to an artist they like
 - Artist pictures and album artwork is used which makes it more interesting and colorful
 - Demonstrates reading text from blips, adding images to them, quoting strings, fetching URLs, extracting text using regex, using DOM to parse XML
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Klotski Puzzle Solver

- Implemented as a script in Python
 - Uses a hybrid of search algorithm
 - Multiple self-developed heuristics used
 - Generates only 12475 nodes compared to 24085 nodes if only Manhattan distance heuristic is used; for the FORGET-ME-NOT configuration
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Multiuser Textual Chat and Two-user Voice Chat

- A client and a server implemented to provide multiuser textual chat in Java
 - Independent thread for each user
 - Implemented in Java hence platform independent
 - Voice chat supported only on Linux, implemented in C
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KERNEL 3D Logo and Website

- Logo designed using Blender, a FOSS program for 3D modeling, animation and rendering
 - Adobe Dreamweaver was used to implement the simple HTML
 - Link: <http://www.bits-go.a.in/Departments/CSIS/kernel/index.html>
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Conferences and Workshops

- Google I/O, San Francisco (May, 2010)
- Workshop on Machine Learning conducted by Centre for Development of Advanced Computing (CDAC), Mumbai (Dec., 2008)