myDrona®

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Hand-held and Personalized Learning Platform

by IIIT-H incubated in http://www.mydrona.com
Information Access for Learning

World Wide Web – the biggest digital library.

- Search for learning involves: Multiple Topics, Multiple documents, Relevance to audience

Most learners have little means, time and know how to access it.

Lot of inappropriate content.

Huge information overload problem.

http://www.mydrona.com
Current means to access WWW

Expensive
Lack Mobility
Distractive
Lack of Service
R&D showed higher levels of retention is possible when all senses are concentrating on a personalized learning platform
“Online learning works for strongly motivated, but very few learners have it”, Bill Gates, Gates Notes, Feb 2011

• Barriers to learn from web
  – Means, Time, Know-how
  – Effortless learning
  – Learning on the go
  – Fun element
myDrona – A Solution

- Freedom to choose from thousands of topics.
- Doesn’t require a Computer or Internet.
- Learn from the BEST across the world.
- Make every place a study room.
- Learn at your own pace

- Books
- Evaluation module
- Encyclopedia
- Educational apps
- Educational Games

http://www.mydrona.com
Behind the Scenes: Technology Backend

Sematifire®

- Domain ontologies
- Domain concept identification
- Domain events identification
- Domain rules / training
- Named Entity Recognizer
- Coreference Resolver
- Relations Identifier
- Language Models
- Document Models / Indices
- Sentence Markers
- Part of Speech Tagger
- Chunker
- Morphological Analyzer
- Parser
- Word Sense Disambiguation
- Role Labeling

Rule based / Statistical / Hybrid modeling
myDrona – Content Overview

- More than One million videos indexed and growing.
- Cloud computing technologies for operations.
- Filter highly relevant content available in the internet.
- 150,000 hours of lectures, animations, practical tutorials, etc.
- ~60TB learning material in the index and still growing.
- Personal Advisors to deliver the right material to the right people.
- Load content to the Device from our high speed internet download service centers / kiosks.

http://www.mydrona.com
myDrona – Supplementary Content Catalog

- Nursery – X class (Any Syllabus)
- Intermediate/XII
- Extra Curricular
- Competitive Exams
- Professional Courses – Engineering, Medicine, Management…
- Skills Development
- Continued Learning
- Goal Oriented Learning

and many more…

http://www.mydrona.com
myDrona Platform - Four Layers

myDrona Device/ Hardware
- Simple and effective UI
- Secured content
- Operating System with Small footprint

Supplementary Content
- Open domain content

Partner Content
- Paid / Proprietary content
- Mix-n-Match with Supplementary content
- Packaged and organized content

Personal Content
- Access to myDrona tools

- Supplementary Content
- Partner Content
- Personal Content
Input: Query

Table of Contents
Output: Content based on

How relevant is it?
How interesting is it?
  - Content analysis
  - Social/anchor links
Relevance to the level/grade of the student
Sequence of learning
Thank you