

# AMRUTA PURANDARE

## Creative Media Technology

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Electronic City, Bangalore



## EDUCATION

### MS Computer Science

University of Minnesota (2002 - 2004)

### BE Computer Engineering

Pune University (1998 - 2002)

## ONLINE PROFILES

### Project Portfolio

<https://pamruta.com>

### Coding Samples

<https://github.com/pamruta>

### LinkedIn Profile

<https://www.linkedin.com/in/pamruta>

### Start-Up Ventures

[cinematrix.in](http://cinematrix.in) | [foodler.in](http://foodler.in)

## ABOUT ME

### Creative Engineer

Inspired by Technical Innovations & Artistic Imagination

### Core Expertise

Build Rapid Prototypes & MVPs to Showcase Creative Ideas

### Hands-On

Hands-on Expertise in Multimedia Projects that involve Audio + Video + Image + Text + Dialogs

### Career Journey

Started career in 2001 by applying AI + ML to solve Text Mining & Natural Language Understanding (NLU) Problems, gradually moving into Speech + Dialogs, and more recently into Multimedia

### Next Steps

Build Next Generation of Creative Media & Entertainment Technology through AI driven Machine intelligence

## LATEST WORK

### Image & Video Understanding

- Identify Popular TV, Movie, Cartoon & Comic Book Characters using AutoML Vision
- Detect Animal & Bird Species in Wild-Life Documentary Films using TensorFlow.JS
- Recognize Sports Activities (like Swimming, Skating, Cycling, Boxing, Surfing) in Sports & Adventure videos using TensorFlow.JS
- Classify Food Images (Cake, Burger, Pizza, Pasta, Juice etc) using Teachable Machines
- Extract Person from Background and Replace Background using Video Segmentation
- Motion Capture in Dance & Action videos by detecting Gestures and Postures
- Recognize Hand-Gestures to count Fingers

### Computational Music

- MIDI Parser & Visualizer to Parse MIDI files & Demonstrate how to Play the Tune on Piano
- Music Generation using Hand-Gestures

### Augmented Reality

- Design & Customize Clothes by selecting Colors, Textures, Patterns and try it in Augmented Reality (AR) Trial-Rooms
- Create Mixed-Reality Effects by placing 3D Models and Animations in Live Scenes

### Facial Expressions

- Capture Facial Expressions of Actors in Comedy and Dramatic Scenes
- Map Facial Expressions of a Person into Animated Cartoon Characters
- Face-Swap: Augment Live Person Face with Celebrity Face-Masks
- Animate Still Pictures and Posters using Deep Fake Technology