CHINMAYA LAD

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EXPERIENCE

SOFTWARE DEVELOPER
Mirraw Online Services

📅 Nov 2016 – June 2018   📍 Mumbai, India

- Examined server-side security vulnerability and feature development on **Ruby on Rails** framework.
- Ownership of Android Development, improved feature usability and implemented UX enhancement for the application
- Optimized GPU rendering performance leading to improved play-store ranking of the app.
- Restructured code base for better performance and minimized code redundancy.
- Introduced modular approach and proper coding standards in project for re-usability and understanding.
- Revamped and Developed Application UI.

DEVELOPMENT INTERN
e-Yantra, IIT Bombay

📅 May 2015 – July 2015   📍 Mumbai, India

- Developed "Fireblocks" (Embedded Programming Tutor).
- Implemented Web application using **PHP Laravel Framework** along with Google's **Blockly Library**.
- Implemented server-side code generation and compiling mechanism.

ACADEMIC PROJECTS

MANGA COLORIZATION USING cGAN
- Developed an application for coloring black & white Manga images using Conditional Generative Adversarial Networks.
- Implemented **U-Net** architecture along with skip-connections for the generating the colored images and **Patch-GAN** architecture as discriminator between the colored image and the real image.

EXPLAINABLE AI
- Developed a system that detect same writers based of pairs of handwriting samples provided.
- Developed an architecture that learns **explainable features** for writers handwriting domain while learning to answer various queries for that domain.
- The architecture consisted of combination of deep learning model along with probabilistic graphical model.
- The deep learning model is an **Auto-Encoder** which provides **latent representations** of the handwriting samples which are then used to predict the explainable features of the samples.

CLASSIFICATION OF HANDWRITTEN DIGITS
- Implemented Logistic Regression, Neural Network, Random Forest and SVM methods and combined them using boosting technique on MNIST dataset for training and testing.
- Tested the model on USPS dataset to validate "No Free Lunch Theorem".

AMAZON DYNAMO STYLE STORAGE
- Designed a distributed **key-value** storage system using Android emulators as distributed servers.
- Implemented partitioning, linearizability, replication and failure handling similar to Amazon Dynamo.

KEY THRESHOLDING
- Implemented **Shamir's Secret Sharing Algorithm** for key thresholding using **Lagrange's Interpolation** and **Elgamal Encryption** as encryption base.

EDUCATION

Master of Science (Computer Science)
University at Buffalo

📅 Aug 2018 – Feb 2020   📍 Buffalo, NY

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Bachelor of Engineering (Computer Engineering)
University of Mumbai

📅 Aug 2012 – July 2016   📍 Mumbai, India

TECHNICAL SKILLS

- Java, Python, Ruby, and C.
- Keras, Tensorflow, Crypto, OpenCV.
- Ruby on Rails, Laravel, Django.
- SQL, MySQL, PostgreSQL.

SOFTWARE SKILLS

- Eclipse
- Android Studio
- Linux OS (Fedora/Ubuntu/CentOS)

ACHIEVEMENTS

🏆 **1st place in e-YRC 2015**
1st place in e-Yantra Robotics Competetion for theme Warehouse Management organized by e-Yantra, IIT Bombay.