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WORK EXPERIENCE

Glance (An InMobi Group Company)

Data Scientist - I & II

AUG 2019 – Now

Bangalore

- Chief developer and architect of CardPress, an AI driven system that generates Glance cards from News fetched from the internet, achieving 5-10x speedup in card creation
- Conversion of landscape videos into portrait video by selectively cropping important elements, achieving results comparable with Google's AutoFlip
- Automation of embedding stylised text into images via various image processing techniques to create Magazine format cards for articles
- Productionized Semantic Text Similarity (STS) models and Ranking (AES) models using word2vec and Universal Sentence Encoder

Python

Azure/Kubernetes

gRPC, Microservices

Django

Video Intelligence

TensorFlow, TFserving

Deep Learning

InMobi

Research Analyst

Jul 2018 – Jul 2019

Bangalore

- Developed a system to analyse the effect of an ad creative's specifications and quality of render in performance campaigns, with an engine to recommend best ad image size to go into the slot
- Developed a system called Creative Insights to rank ad images based on predicted CTR, with an Insights Engine that recommends design changes to maximise CTR
- Developed CNN models to predict user interaction based on advertisement (images), multiple architectures developed and evaluated.
- Implemented and deployed Super Resolution GAN for super resolving advertisement images

Python

GANs

CNN

Deep Learning

InMobi

Data Science Intern

Feb 2018 – Jun 2018

Bangalore

- Automation of 'insights' derivation for plots in brand campaign reports
- Experiments to evaluate SIFT and Siamese Networks in detecting duplicate advertisement images and deployment of same using pyspark

Robert Bosch Engineering and Business Solutions Limited

Machine Learning Intern

Aug 2017 – Dec 2017

Bangalore

- Experiments on deep learning models for diabetic retinopathy, meibomian and glaucoma detection.

EDUCATION

Bachelor of Engineering - Computer Science

Sir. M. Visvesvaraya Institute of Technology

Score: 81.2%

Aug 2014 – Jul 2018

Bangalore

Class 10 and 12

Kendriya Vidyalaya No.2

CGPA: 10 and Score: 95%

Mar 2003 – Mar 2014

Bangalore

ACHIEVEMENTS

- Annual 'Mastermind in Data Science' award
- Multiple quarterly best performer awards
- Multiple spot recognition awards at InMobi
- Honorable mention, ACM ICPC onsite 2016 & 2017
- Udacity's Android Developer Nanodegree Holder
- Google Summer of Code 2017 - with Python Software Foundation

SKILLS

Machine Learning

- Frameworks: TensorFlow, TensorFlow serving, Scikit-learn
- Classification: CNNs, CapsuleNets, SiameseNets & classical ML algorithms
- Regression: CNNs, Forest based models
- Generative models: GANs

Big Data

- PySpark

Software (Backend)

- Infra: Azure, Kubernetes
- Web Frameworks: Flask, Django
- Communication: gRPC, Thrift
- Databases: various SQL DBs

Software (Frontend)

- HTML, CSS, Javascript

Mobile Application

- Android app development, (Multiple apps on the PlayStore. One of them with 50K+ downloads)
- Android Library, Listview-Snapshot

Terminal Application

- GoChat, a universal linux application that lets it's users to chat with one another through the terminal
- Multiple command line tools, Shell Scripting

PUBLICATIONS

A Novel Double Backtracking Approach to the N-Queens Problem in Three Dimensions

International Journal of Computer Applications 169(5):1-5, July 2017

Deep Learning-Based Analysis of Meibomian Glands

Biomedical Signal Processing and Control

Deduplication of Advertisement Assets Using Deep Learning Ensembles

19th IEEE International Conference On Machine Learning And Applications