Deepak Karkala

Looking for full time or freelancing position as Data Journalist, background in Machine Learning and Data Analytics.

Portfolio GitHub Linkedin



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Education

Master of Science
EPFL, LAUSANNE SWITZERLAND
Communication Systems

2007 – 2011 Bachelor of Engineering RVCE, BANGALORE INDIA ELECTRONICS AND COMMUNICATION

Projects

How to measure similarities in rhythms Feb 2020 of songs ?

This project aimed at measuring rhythmic similarity of two songs developing a novel method of visualizing the rhythm of a song and determining the most unique songs, most similar song pairs, most unique artists.

Airbnb and the tale of many cities

Sep 2018

An investigative report of Airbnb's constant battle against city governments. This project explored what makes Airbnb so popular ? Who are the players in the battle against the company ? What has Airbnb done to counter these issues ? Project

Anomaly Detection in Sensor Data

April 2018

This thesis project involved developing a predictive maintenance algorithm aimed at detecting the presence of abnormalities in heating energy consumption in apartments using data captured by IoT sensors.

Debunking the fear of rise of AI

June 2019

An attempt to explain the underlying workings of today's AI systems and thereby reduce the fear and apprehension among public about the rise of AI.

Scene understanding using Deep Learning July 2017

This project aimed to interpret the scene using deep learning algorithms. It involved detecting and localising the objects, determining the relations between objects in the image by training Convolutional Neural Networks using the Torch framework.

Tracking the Covid19 outbreak in India May 2020 A report on India's coronavirus story: how the outbreak unfolded, the current situation, state-wise analysis and an attempt to raise awareness about the need for social distancing. Also developed an interactive exploratory tool for detailed analysis of the Covid19 statistics and figures in India.

Skills

Programming	Python, JavaScript, C++	
Data Analytics	Deep learning (PyTorch) Python (scikit learn, numpy, pandas) d3.js, Spark, SQL, AWS	
Journalism	Investigative reporting, Data-scraping Data Story-telling, Data-Visualisation Sports Data-Sabermetrics	
Work Experience		

eSMART Technologies Data Analytics Engineer

Jun 2018 – Jan 2020 Renens Switzerland

Working on data analytics and anomaly detection in IoT sensor data of buildings.

NEC Labs America

Feb 2017 – Jul 2017 Princeton USA

Machine Learning Research Intern

Working on deep learning algorithms for object detection in images using Torch framework.

Signalchip Innovations Design Engineer

Mar 2012 – May 2015 Bangalore India

Joined the semiconductor startup as the fifth employee and was involved in design and development of Signal Processing algorithms for Wireless Communications - 3G (WCDMA) and 4G (LTE).

Indian Institute of Science Junior Research Fellow

Jun 2011 – Feb 2012

Bangalore, India

Developed efficient algorithms for image reconstruction in Diffuse Optical Tomography using MATLAB.

Journal Publications

Medical Physics - 2012

Data-Resolution based Optimization of the Data-Collection Strategy for Near Infrared Diffuse Optical Tomography. Link

IEEE JSQTE - 2012

Mesh simplification based on edge collapsing could improve computational efficiency in near infrared optical tomographic imaging.

Patent

Method and system for symbol level interference cancellation at a receiver for multiuser detection.

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