

Kumar Shubham

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Citizenship: India

Research interests Computer Vision, Reinforcement Learning, Social & Behavioral Psychology, Bayesian Inferences, Manifold Learning

Education
International Institute of Information Technology (IIIT) Bangalore, India
MS by Research - Data Science Aug 2018 – Present
Supervisor : Prof. Dinesh Babu Jayagopi, Prof. G. Srinivasaraghavan
GPA: 3.78/4.0.

LNM Institute of Information Technology Jaipur, India
Bachelors in Electronics and Communication Jul 2012 – Apr 2016
Mentors: Prof. M. Tanveer
GPA: 7.96/10.0.

Honors and scholarships
Travel grant to pursue research in Switzerland (IIIT- Bangalore) 2019
Speaker, Data Science Developer Summit (Fifth Elephant, Bangalore) 2018
Finalist, Xerox Research Innovation Challenge (Xerox, India) 2016
Open source contribution (DeepDetect) 2016
Winner, Jaipur Hackathon (Jaipur startup community) 2015
Semi finalist, Texas Innovation Challenge (Texas Instruments, India) 2015

Publications
Learning a Deep Reinforcement Learning Policy Over the Latent Space of a Pre-trained GAN for Semantic Age Manipulation
Kumar Shubham, Gopalakrishnan Venkatesh, Reijul Sachdev, Akshi, Dinesh Babu Jayagopi, G. Srinivasaraghavan.
arxiv-preprint(under review), 2020.

Conventional and Non-conventional job interview methods: A comparative analysis between two countries
Kumar Shubham, Emmanuelle Patricia Kleinlogel, Anaïs Butera, Marianne Schmid Mast Dinesh Babu Jayagopi.
International conference on multimodal interaction (ICMI), 2020.

A regularization on Lagrangian twin support vector regression
Muhammad Tanveer, **Kumar Shubham**.
International Journal of Machine Learning and Cybernetics (Journal), 2017.

Smooth twin support vector machines via unconstrained convex minimization
Muhammad Tanveer, **Kumar Shubham**.
Filomat (Journal), 2017.

An efficient regularized K-nearest neighbor based weighted twin support vector regression
Muhammad Tanveer, **Kumar Shubham**, Mujahed Aldhaifallah, SS Ho.
Knowledge-Based Systems(Journal), 2016.

An efficient implicit regularized Lagrangian twin support vector regression
Muhammad Tanveer, **Kumar Shubham**, Mujahed Aldhaifallah, KS Nisar.
Applied intelligence(Journal), 2016.

Research experience

AI For Social Psychology

Mentors: Dr. Marianne Schmid Mast (UNIL, Switzerland) Feb 2019 – Jun 2019

During my internship, I explored recent advancement in generative models and explored ways in which these models can be used for causal interventional experiments in social psychology.

Mortality and disease prediction

Mentors : Dr. Vaibhav Ranjan, (Xerox Research Center, India) Dec 2015 – Jan 2016

During my internship, I worked on algorithms to predict mortality & diseases of patients based on time series data of labs and vitals information.

Industry experience

Dataweave software pvt ltd, Semantics Dept.

Bangalore, India

Data engineer

2016 – 2018

During my job in Dataweave, I worked on large scale content base image retrieval algorithms and developed infrastructure to match different product from fashion and footwear categories in a pool of billions of data point from different sites like Amazon, Walmart, e.t.c.

My team also developed an unique solution to search counterfeit products on E-commerce sites, which bagged prize for one of the most innovative startup solution provided by companies in india, by Government of India(NASSCOM).

Skills

Programming

Proficient in: Python, C/C++, JavaScript, Java

Experience in: Pytorch, Tensorflow, Kafka, SOLR