Amit Kumar Jaiswal

amitkumarj441@gmail.com | +44 7448 485089

EDUCATION

University of Bedfordshire
England, United Kingdom
PhD · 2018 - Present
Quantum Information Retrieval

University Institute of Engineering & Technology, CSJM University
Kanpur, India
BTech · 2013 - 17
Computer Science & Engineering

CERTIFICATIONS

Introduction to Deep Learning (Honors)
National Research University Higher School of Economics, Russia
Coursera · March 2019

Text Retrieval & Search Engines
University of Illinois at Urbana-Champaign
Coursera · May 2019

Mathematics for Machine Learning
Imperial College London
Coursera · April 2020 - Ongoing

COMPUTING

Languages
Python · C/C++ · Bash · Scala · Perl · R · JS · Rust

Cloud Platforms/Stacks
GCP · AWS · Azure · Kubernetes · Openshift/Openstack · Kubeflow

Area of Interest
Machine Learning · NLP · Mathematical Physics · Computer Vision · Cloud Computing · Information Retrieval

Operating Systems
Linux · Windows · MacOS

LINKS

kaggle.com/amitkumarjaiswal
github.com/amitkumarj441
linkedin.com/in/amitkumarjaiswal1
hackerrank.com/amit_gkp

HONORS & AWARDS

Full Travel Grant - Alan Turing Hackathon, Sept 2019
Alan Turing Institute, London

Full Travel Grant - Alan Turing Hackathon, Aug 2019
University of Bristol, United Kingdom

EXPERIENCE

University of Bedfordshire, England
Marie Curie Researcher · Apr 2018 - Present
- Research focuses at the intersection of Interactive Information Retrieval and Information Foraging Theory

University of Padova, Italy
Visiting Researcher · May 2019 - June 2019
- Worked on applying Quantum IR techniques in image search tasks

Google Code-In
Mentor at PostgreSQL · Oct 2018 - Dec 2018
- Created and assisted "PostgreSQL, YML & Dockerfile - PostgreSQL as a microservice" task

Google Code-In
Mentor at OpenWISP · Nov 2017 - Jan 2018
- Assisted microservice and network related tasks.

Open Mainframe Project - Linux Foundation
Summer Intern · Jun 2017 - Sep 2017
- Enabled OpenStack support for z/VM
- Benchmarked OpenStack functions and support matrix features [1]
- *Mentor:* Kevin (Ji) Chen, *Co-mentor:* Emily Hugenburch

Google Summer of Code
Summer Intern, Cloud Native Computing Foundation · 2017
- Created and implemented a data model to standardize Kubernetes logs [1]
- Tech stack: OpenShift, Kubernetes, Elasticsearch, Ruby, Fluentd, Kibana [1]
- *Mentor:* Miguel Perez Colino, *Co-mentor:* Richard Megginson

CapitalVia Global Research LTD, Indore, India
Software Engineering Intern · June 2016 - July 2016
- Built a scalable web application for Visitor Management System [1] in PHP and JS.
- Developed a scalable web app for Courier Management System [1] in PHP and JS.
- *Mentor:* Rohit Gadia

SuperProfs, Bangalore, India
Product Developer Intern · Jun 2015 - Jul 2015
- Responsible for product development and quality assurance of IIT-JEE exam contents.
- Acted as a mentor for JEE aspirants.

Indian Institute of Management Ahmedabad (IIM-A), India
Campaign Associate · May 2015 - June 2015
- Responsible for creation and translation of Educational videos
- Acted as a lead developer of initiative "Scholars for Change"

Centre for Monitoring Indian Economy, Mumbai, India
Research Analyst · Mar 2015 - Apr 2015
- Analyzing and quantification of household data of Consumer Pyramids using time series - Normalized Consumer Pyramids data.
- *Mentor:* Aditi Kadam

PUBLICATIONS

Utilising Information Foraging Theory for User Interaction with Image Query Auto-Completion, European Conference of Information Retrieval (ECIR) · 2020
Amit Kumar Jaiswal, Haiming Liu, Ingo Frommholz

Information Foraging for Enhancing Implicit Feedback in Content-based Image Recommendation, ACM FIRE Conference · 2019
Amit Kumar Jaiswal, Haiming Liu, Ingo Frommholz

Fee Waiver - Search Solutions, 2018
London, UK

Diversity Scholar - H2O AI Conf., 2018
London, UK

Diversity Scholar - DockerCon, 2018
San Francisco, US

Travel Grant - EthDenver Hackathon, 2018
Denver, US

Full Travel Grant - KubeCon+CloudNativeCon, 2017
Austin, TX, US

Full Travel Grant - OpenStack Summit, 2017
Sydney, Australia

Full Travel Grant - WikiToLearn India Conference, 2017
Jaipur, India

Full Travel Grant - Mozilla Summit, 2017
India

POSITIONS OF RESPONSIBILITY

Postgraduate Research Representative - University of Bedfordshire, • 2019 - Present
Bedfordshire, United Kingdom

Co-Organizer - Global FinTech Conference, • 2019
New Delhi, India

Organizer - Global Blockchain Conference, • 2018
New Delhi, India

Representatiove - Mozilla Foundation, • 2016 - 2019
India

Community Evangelist - GeeksforGeeks, • 2015 - 2017
India

PROFESSIONAL SERVICE

Web Chair
CHILites (SIGCHI) 2019

Reviewer
Machine Learning for Physical Sciences workshop, NeurIPS 2019

Reviewer
Journal of Open Source Software (JOSS) 2019

Sub-reviewer
European Conference on Information Retrieval (ECIR) 2020

Semi-Supervised Learning for Cancer Detection of Lymph Node Metastases, Proceedings of Towards Causal, Explainable and Universal Medical Visual Diagnosis Workshop at CVPR • 2019
Amit Kumar Jaiswal*, Ivan Panshin*, Dimitrij Shulkin*, Nagender Aneja, Samuel Abramov

Effects of Foraging in Personalized Content-based Image Recommendation, Proceedings of the 2nd EARS Workshop at SIGIR • 2019
Amit Kumar Jaiswal, Haiming Liu, Ingo Frommholz

Identifying Pneumonia in Chest X-Rays: A Deep Learning Approach, Journal of Measurement • 2019
Amit Kumar Jaiswal, P. Tiwari, S. Kumar, Deepak Gupta, Ashish Khanna, Joel J.P.C. Rodrigues

Investigating Interactive Information Retrieval via Information Foraging Theory, FDIA Workshop at ICTIR • 2018
Amit Kumar Jaiswal

Quantum-like Generalization of Complex Word Embedding: A Lightweight Approach for Textual Classification, LWDA • 2018
Amit Kumar Jaiswal, Guilherme Holdack, Ingo Frommholz, Haiming Liu

PROJECTS

Pruning Neural Network • 2019
Codebase: https://github.com/amitkumarj441/nn_prune

Quantum-inspired Word Embedding • 2018
Contributed Codebase: https://github.com/wabyking/qnn

Capsule Network for Named Entity Recognition • 2018
Codebase: https://github.com/amitkumarj441/CapsRoute_NER

Parsec: A web-scale state channel for the Internet of Value • 2017
Codebase: https://github.com/amitkumarj441/Parsec

SQL Query Generator for Natural Language • 2017
Codebase: https://github.com/amitkumarj441/SQGNL

COMPETITIONS & HACKATHONS

Collaborative Telco Hackathon, Alan Turing Institute, London • Sept 2019
Applied probabilistic modelling and ML for Bandwidth allocation on Saudi Arabia Telecom (STC) data

Collaborative Hackathon by Alan Turing Institute, London at University of Bristol • Aug 2019
Applied ML/DL for Protein Folding

Google Landmark Retrieval, CVPR Workshop • 2019
Codebase: https://github.com/antorsae/landmark-retrieval-2019

FGVC6 Workshop, CVPR • 2019
Applied graph convolutional network with fine-tuning over 1.5K objects from museums art gallery (*code in preparation*)

Google Code Jam •2018
Qualified Round 2 (overall 4 Rounds)

IndiaHacks Hackathon, Bangalore, India
Built Parsec (*Runner-up*, 2017)

Rajasthan E-Governance Hackathon, Jaipur, India
Built ManhoodCoin based on Hyperledger (*FinTech Track Winner*, 2017)

EtherCamp Virtual Hackathon • 2016
Built MultiSig Crypto Wallet (*Runner Up - Wepesa Team*)

REFEREES

Available on request.