

Harsh Verma

San Francisco Bay Area



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Summary

#Let's talk AI :). 5+ years of versatile experience in startup Tech Industry. "Future belongs to those who see possibilities before they become obvious", I Believe in three P's of professional life : passion, persistence and people to learn, grow, solve problems mutually. My zeal to make things happen defines me as "Researcher by passion."

GitHub Profile : <https://github.com/iamharshverma>

- Experience and expertise in Machine Learning, Big Data, NLP, Deep Learning, Computer Vision.
- Big Data : Recommendation systems, Data Pipeline Google cloud platform, Spark, Kafka, Hadoop.
- Passionate about building intelligent machines and distributed system designs.
- Master's in Computer Science specialization in Big Data Science, ingraining into core aspects of Natural Language Processing(NLP), Machine Learning(ML), Artificial Intelligence(AI).
- Enthusiastic about Entrepreneurship, Startup culture and Data product companies.
- Love to learn new technologies, meet people, manage events and share experiences.
- Campus Editor LinkedIn(University of Texas)

Building strong network relations.

Always open to talk about Ideas, Research, Entrepreneurship, Conference events and Data/Machine learning solutions.

Have an amazing startup Idea, research, event/conference where you would like to meet and talk; feel free to drop me a message or reach out at-> harshverma59@gmail.com

Experience



Graduate Research Assistant

The University of Texas at Dallas

Aug 2019 - Jan 2020 (6 months)

Working as an individual researcher under prof Dr. Latifur Khan (Big Data Lab) in the area of secure IOT, Big Data, DroneTech, DeepLearning, Edge Computing, Real Time Systems.

Research Work : Secure Real-Time Heterogeneous IoT Data Management System vision paper published in IEEE International Conference on Trust, Privacy and Security in Intelligent Systems.

Publication Link : http://www.sis.pitt.edu/lersais/tps/2019/accept_papers.html



Big Data-Software Engineering Intern

Palo Alto Networks

May 2019 - Aug 2019 (4 months)

Big Data ML frameworks Development : Building Distributed Machine Learning System for Multi App-Id prediction over massive traffic logs.

Distributed Data Engineering/Data Science using Google Cloud Platform

Prog Lang : Scala, Java, Python

Tech Stack : Tensor-flow, Google-ML, Elastic-Search, Spark, Hadoop, Google Cloud Platform



Faculty Advisor

The University of Texas at Dallas

Jan 2019 - May 2019 (5 months)

Mentoring Senior undergrad students to build a real time application solving challenges in Medical domain using Machine learning, Blockchain, Big Data.



Software Developer UT-Design

The University of Texas at Dallas

Sep 2018 - Apr 2019 (8 months)

In collaboration with UTDesign and Reliance Jio :

- Working on Data Collection Analytics and Events(DCAE) Module.
- The aim is to provide end to end plug and play feature of Data analytics for different network suites(AT&T, Verizon)



Software Engineer

Hike

May 2015 - Aug 2018 (3 years 4 months)

Prog. Lang : Java | Python

Data Science :

- * Exploring and diving into various aspects of Big-Data Technologies and Machine Learning.
- * Extending content-tagging modules(Video/Image : Spam/Explicit content Detection)
- * Building Celebrity/Face Detection and recognition module
- * Developing Content visualisation console(WT-Forms, Python, Flask, HTML, CSS, JS)
- * Content Similarity Detection(Images[Densenet], Text[fastText]), ranking and recommendation system.
- * Setting up backend DB for data flow (Cloud-Spanner, Mysql)
- * Building Modular Auto-Deployment Pipeline for various projects(Jenkins, fabric, Supervisor)
- * Creating scripts to generate relevant data flow on stage(test env)
- * Fixing regular issues/bugs.

Server/Tools & Engineering Development :

- * REST, HTTP, MQTT
- * MQTT-fx, Postman
- * Databases (MYSQL, PostgreSQL, Redis, Mongo)
- * Docker, AWS, GCP, Kafka, Nagios, Fabric, Statsd/Grafana, Flask, Supervisor, Zookeeper
- * Auto Deployment Module : Multiple instances parallel execution, deployment using Ansible.
- * Performance Engineering at Hike
- * Developing In-house Performance/Load scale Framework(HikeRunner)
- * Building CI Pipeline using Jenkins for performance automation.
- * REST API Automation Framework.
- * Git and GitHub (source control management)
- * Experience working in Agile/Scrum Model.
- * Providing required KT to QE Team.



Intern

Hike

Apr 2015 - May 2015 (2 months)

Diving into Start-up Industry and learning existing frameworks.



Research And Development Intern

Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO)

Jan 2015 - Apr 2015 (4 months)

Worked on research-cum-development under eminent scientist 'Dr. Harish Chandra Karnatak'.

Key Research Areas : Big Data Analytics in GIS

Roles and Responsibilities :

- Database management and Integration of Modular Maps using Open Layer API, Geo-server, PostgreSQL.
- API's to trace any location coordinate to enable specific data download and analysis.
- Implementation of Bhuvan and Google maps API in navigation search framework.
- Development of modules necessary to analyse spatial data in an efficient way supporting various filters and graphical views.
- Worked on database layer using PostgreSQL, enhancing existing DB layer and adding new functionalities.
- Developing presentation layer modules for web view using Advance Java and J-Query.



Mozilla Firefox Student Ambassador

Mozilla India

Feb 2014 - Mar 2015 (1 year 2 months)

Roles and Responsibilities :

- To bridge the Gap between college and Firefox new upcoming Technology , Firefox OS.
- Manage and organise University level Firefox events.



Software Developer Internship

Indian Opto Electronics Factory, Ministry of Defense(Government of India)

Jun 2013 - Jul 2013 (2 months)

Roles and Responsibilities :

IT Department Data Management, Information security and website management.

Education



The University of Texas at Dallas

Master of Science - MS, Computer Science (Data Science)

2018 - 2020

Masters in Computer Science specialization in Data Science Track(AI, NLP, Deep Learning, Big Data).

Research Area: Secure Real time streaming Data Management Solutions using AI, computer vision and Deep learning.

Courses Taken:

Machine Learning (PHD/QE course), Natural Language Processing, Implementation of Data Structure & Algorithms, Big Data, Database Design, Information Retrieval, Design and Analysis of Algorithm, Deep Learning (CNN), Artificial Intelligence, Virtual Reality, Computer Vision.

Research Work :

Secure Real-Time Heterogeneous IoT Data Management System vision paper published in IEEE International Conference on Trust, Privacy and Security in Intelligent Systems.



Uttarakhand Technical University

Dehradun Institute of Technology | B.Tech(Hons), Computer Science & Engineering

2011 - 2015

B.Tech(Hons.) in Computer Science & Engineering

Academics : Among top 0.1 % students: Ranked 3rd in University(dean academics list)

Courses Taken:

Artificial Intelligence, Design and Analysis Of Algorithms, Operating System, Data Structures, Advance Data Structure, Object-Oriented Programming, Advanced Java Programming, Data Base Management System.



Kendriya Vidyalaya

High School(HSC) And Senior Secondary(SSC), Science Stream

2008 - 2011

HSC: 2009 SSC: 2011

- Awarded Certificate of Merit from CBSE Board for being among 0.1% of academic achievers.

Licenses & Certifications



Advance Java Oracle Web Development Program - NIIT Technologies



Data Science Foundations: Fundamentals - LinkedIn

ATUWkqYx_D9oKCcKL_o1oukbt5s3



Python for Data Science Tips, Tricks, & Techniques - LinkedIn

Ab4z99nbCU9QCWX03C1jdq0IM6fG



Building a Recommendation System with Python Machine Learning & AI - LinkedIn

ASikvg_q6QYafdcCVx6cnemOaayp



Elasticsearch Essential Training - LinkedIn

AW0oD8OAg9ioVpfkYI0APlnSq_PH



Docker for Java Developers - LinkedIn

AQ1bfUsq7vhh6xQJRg4MCp6Cuw2o



Optimizing Python Services - LinkedIn

Ab40IMvse8TJ9rKhnl4_zqA6bwZ7



Data Science Foundations: Python Scientific Stack - LinkedIn

AemrnAYDm9O3CvkZo7bloxY7QmqA



NLP with Python for Machine Learning Essential Training - LinkedIn

AerWylAdoJ1nesys_QUyG1sgP1Lt



Python: Design Patterns - LinkedIn



NumPy Data Science Essential Training - LinkedIn



pandas for Data Science - LinkedIn



Machine Learning A-Z™ Hands-On Python - Udemy

UC-9PHTAB18



Deep Learning: Image Recognition - LinkedIn



How Google does Machine Learning - Coursera

VAJGTMZ4BCYE



Big Data: University of California San Diego - Coursera

HUEPQYPK7MH8



Big Data Modeling and Management Systems : University of California San Diego - Coursera

KNEKBLY8YUPB



Google Cloud Platform Fundamentals: Core Infrastructure - Coursera

Q6R2BYAHE6TW



End-to-End Machine Learning with TensorFlow on GCP by Google Cloud - Coursera
BR367FYCNXVC



Production Machine Learning Systems by Google Cloud - Coursera
LYS54WAANPR2



Image Understanding with TensorFlow on GCP by Google Cloud - Coursera
J4BNYKXAZHXV



Sequence Models for Time Series and Natural Language Processing by Google Cloud - Coursera
QHURQNHC47MP



Recommendation Systems with TensorFlow on GCP by Google Cloud - Coursera
NE22GL7R94T6



Advanced Machine Learning with TensorFlow on Google Cloud Platform, a 5-course specialization by Google Cloud - Coursera
9NP65LRC63C4



Udacity Computer Vision Nano-degree Program - Udacity



Udacity AI in Healthcare Nano-degree Program - Udacity



Udacity AI in Finance Nano-degree Program - Udacity

Honors & Awards



Certificate of Honour for speaking at @#ATAGTR2017 - @ #ATAGTR2017 #GTR2017
Mar 2017

Certificate of Honour for speaking on developed Performance Tool HikeRunner at @#ATAGTR2017
<http://agiletestingalliance.org/agileBlogs/atagtr2017-meet-our-speaker-series-harsh-verma/>



Certificate of Merit - CBSE BOARD

May 2009

Awarded Certificate of Merit from CBSE Board to be among top 0.1% of Achievers.



Certificate of Appreciation for being Firefox Student Ambassador - Mozilla Firefox

Mar 2014

Certificate of appreciation for being Firefox Student Ambassador, To bridge the gap between campus and Mozilla firefox organization.



Certificate of Appreciation - Dehradun Institute of Technology

Feb 2014

Awarded Certificate of Appreciation for Designing and Developing College Technical club website for year 2014



Certificate of Merit (Dean Academics) - Uttarakhand Technical University

Jul 2016

Awarded Certificate of merit for securing 3rd Rank in Uttarakhand Technical university B.Tech(Hons) CSE program(2011-2015)



Honored to Interview with Life Page India to share experiences and talk about software development process - Life Page

Jul 2018

LifePage is a Career selection Organization featuring 1,028 Career Talks from real professionals.

Invited to Interviewed with Life Page India to present my views, upcoming plans, experience, challenges, software development process and career aspects for upcoming students.

<http://www.lifepage.in/>



Selected to present research work on drone tech and real time deep learning system at Open Data Science Conference(ODSC) Boston - Open Data Science Conference

Mar 2020

Selected to present the published research work on Secure Real-Time Heterogeneous IoT Data Management System vision paper at Open Data Science Conference ODSC(<https://odsc.com/>)

Skills

Research • Software Development • Java • Programming • Automation • Strategic Planning • Project Management • Event Management • Algorithms • Data Structures