

SUBHASH CHANDRA



Contact Information Research Project Assistant CPDM (Current lab), Supercomputer Education and Research Centre (Previous lab), Indian Institute of Science, Bangalore, India 560012

Proficiency Program: Reinforcement Learning

Advisor: Prof. Shalabh Bhatnagar CSA, IISc

Lab: 423, SERC, IISc. Phone: +917017562795 Email: subhashc.iisc@gmail.com Web: https://iisc-scv.github.io/resume/

Lab: Stochastic Systems Laboratory, CSA

Web: https://www.csa.iisc.ac.in/~shalabh/index.html

Research & Interest My interest lies between the intersection area of privacy-preserving machine learning, cryptography, NLP, deep reinforcement learning, virtual reality, robotics with AR/VR and information security. My most recent work is focused on developing a spoken dialogue system in a controlled knowledge base, where I designed and developed a VR lab for college experiments and provided virtual assistance in the virtual lab experiments. I also have worked with Padma Shri Prof. Balki at Supercomputer Education Research Centre, IISc. on "Cryptographic Algorithm Validation System" where I wrote code for validating

Advance Proficiency Certificate **Programs** (IISc)

- DSA, ECDSA, RSA, etc. algorithms. Nowadays, I am also tutoring two USA based freshman students for "AI and Python"
- Proficiency Program: Deep Learning Lab: Learning and Extraction of Acoustic Patterns Advisor: Prof. Sri Ram Ganapathi, ECE IISc Web: http://leap.ee.iisc.ac.in/sriram/
- Indian Institute of Science, Bangalore, India.....Aug-Dec 2017 Proficiency Program: Data Mining Lab: Artificial Intelligence Lab, CSA Advisor: Prof Susheela Devi CSA IISc Weh: https://www.csa.iisc.ac.in/~susheela/

Audited Courses (IISc)

- Indian Institute of Science, Bangalore, India.......Aug-Dec 2019 Dept.: Robert Bosch Centre for Cyber-Physical Systems Advisor: Mr. Raghu Krishnapuram Course: Autonomous Navigation [CP-313] Web: https://cps.iisc.ac.in/people/research/
- Dept.: Computer Science and Automation (CSA) Advisors: Prof. Arnab Bhattacharyya & Prof. Anand Louis Course: Design & Analysis of Algorithms [E0 - 225] Web: https://www.comp.nus.edu.sg/~arnab/
- Indian Institute of Science, Bangalore, India......Aug-Dec 2017 Dept.: Computational Data Science (CDS) Advisor: Prof. Partha Pratim Talukdar Course: Machine Learning with Large Datasets DS-2221 Weh: httn://www.talukdar.net/

Coursera Certificate

Courses

- Offered By: University of Colorado boulder, USA Platform- Coursera
 - Course: Crash Course on Python (100%)..... .. Jan-Mav 2021 Platform; Coursera Offered By: Google
 - Offered By: Google Platform: Coursera
 - Course: Google Ads for Beginners (100%)..... Jan-May 2021 Offered By: Coursera Project Network Platform: Coursera
 - Course: Consonants of American English Pronunciation (94%)...... Jan-May 2021 Offered By: Coursera Project Network Platform: Coursera

Education

- Inst.: Institute of Engineering and Technology, Bareilly, U.P.
- College: Career Convent College, Vikas Nagar Lucknow, U.P.
- School: D.R.L. Inter College Gandhi Nagar Pilkhawa, U.P.

Employment >>

- Independent Tutor of Python & AI (Teaching two USA base freshman)......Feb 2021-Present Platform: SuperProf. (Online)
- Research Project Assistant...... Oct 2019 – Present Dept.: National Design and Innovation Center CPDM Inst.: Indian Institute of Science Bangalore, India
- Dept.: Supercomputer Education and Research Centre (SERC) Inst.: Indian Institute of Science, Bangalore, India
- Inst.: Indian Academy of Sciences (IAS), Bangalore, India
- Dept.: Indian Institute of Science, Bangalore, India Inst.: Department of Computer Science & Automation (CSA)
- Jun 2016 Jul 2016 Dept.: IT Department, Lucknow Division, Northern Railway

Organization: Indian Railway

Employment	>	Intern (Advance Java Programming for Web Development)	.5
Projects	>	National Design Innovation Network	re
	>	Cryptographic Algorithm Validation System (CAVS)	
	>	Autonomous Navigation based on place recognition	
	>	Implementation of Double Q-Learning algorithm on Mountain Car Game-Reinforcement Learning	
	>	Probabilistic Normal Distribution-A physical model to demonstrate children so that they can visualize normal distribution by performing physical experiment	
	>	MNIST hand written digit recognition using CNN, RNN, and LSTM	
	>	Implementation of NN, Knn, K-mean algorithm on Iris Data Set (UCI- Machine learning repository)	
	>	Reliable Energy Balance Model for Wireless Sensor Networks	
	>	Dynamic Clustering Head Node Selection Using Fuzzy C-Mean algorithm	17
	>	Application of machine learning in the prediction of types of tumor (Malignant/Benign)	16
	>	PCM with RUN- A PC game which helps in learning Physics, Chemistry and Mathematics formulas, key points by playing the game	
	>	SAR (Self Attendance Register)- A android based register App that keeps track of student's attendance and notify if individuals are lacking the required s attendance	
International	>	Google Cloud Next 21	1
Conferences/ Symposiums	>	Secure Multiparty Computation: Theory and Practice)
	>	"2019 Global Technology Summit" Carnegie India)
	>	"Deconstructing Data Localization in India" Workshop 2019, Carnegie Endowment for International Peace, India	
	>	Brain, Computing and Learning (BCL) Workshop 2019, Indian Institute of Science Bangalore	
	>	Data Science Symposium 2017, Indian Institute of Science Bangalore	
		INTERNET OF THINGS (IOT): Smart Innovation & Uses, TEQIP II in association with IEEE UP Section, India	
	>	WAVELET AND ITS APPLICATION IN ENGINEERING PROBLEM Symposium	5

Leadership/ Achievements	> >	NET Qualified- All India Rank-148 (JEST-2018)
	>	Active Member of Hindi Samiti, a group of IISc. Which organize different cultural events during the whole year.
	>	Active Member of Indra-Dhanush IET MJPRU- The group which gathers local slum children and teach them in the evening time (Free and quality Education)
	≻	Class Representative (CR) during my undergradAug 2014 – Jun 2017
	➤	ACM ICPC AIR Rank 132, Kolkata RegionOct- 2015
	≻	Computer Quiz Winner at College level
	>	Best Rank Scorer in Engineering Entrance Exam from Career Convent Inter College, Lucknow
	>	Secured 3rd Position in high school at whole exam center
	>	Class Monitor from class 3rd to class 10 th and Topper of the class
Skills/ Interest	>	Machine Learning, Simulation (NetSim), Programming in Java, C, C++, Octave, Python, C#, HTML, Wicket, PHP, CSS, XML, MYSQL, MySql, IBM Watson services, Full stack developer (Medium level), Unity3D, google STT, google TTS etc.

Interest

- Writing Hindi Poetry, Cricket, listening music, playing cricket.

Languages

> English, Hindi, Sanskrit, Awadhi.