

# Sumit Pandey

Master of Science

Centre for Reliability Sciences and Technologies

Department of Electronic Engineering

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Personal Website



## Education

Examination	University	Institute	Year	Percentage/GPA
M. S.	CGU	Department of Electronic Engineering	2020	3.78/4
Graduation	UTU	Dehradun Institute of Technology	2016	68%
Intermediate	UKBE	V.V.M. Inter College Bageshwar	2011	60%



## Research

### Research Experience

#### Research Assistant

Machine Learning and Statistical Analysis

**Supervisor:** Prof. Cher Ming Tan

CRST Lab, C.G.U., Taiwan

17-Feb, 2018 to Present

#### Research Assistant

Deep Learning Applications in Medical Sciences

**Supervisor:** Prof. Kuan Fu Chen

C.G.M.H. , Linkou, Taiwan

10-Nov, 2018 to Present

#### Research Intern and Research Trainee

Swarm Terrain Profiler Robotics System

**Supervisor:** Assoc. Prof. (Dr.) Praveen Kant Pandey

MAC, University of Delhi, Delhi

Jan- June, 2016 and Aug,16- Jan,17

### Course Projects (Theses)

#### Automatic Fire Initiated Braking And Alert System For Trains. (Guide: Prof Sandeep Sharma )

Designed A wireless embedded system that will be used to alert people during precarious fire accidents so that life as well as the damage can be minimized.

#### Swarm Terrain Profiler Robotics System-STPRS. (Guide: Assoc. Prof Praveen Kant Pandey)

An autonomous terrain profiling multi-robotic system designed for stationary work and is equipped with multiple sensors to get information on its surroundings.

### Research Publications : Journals

Cher Ming Tan, Udit Narula, Lu An Lai, Sumit Pandey, Jung Hua Tung, Chung Yi Li, “**Optimal Maintenance Strategy on Medical Instruments used for Haemodialysis Process**”, Eksploatacja I Niezawodność - Maintenance And Reliability accepted on February 2019.

Sumit Pandey, Cher Ming Tan, Hsiao-Wen Chen, Yao En Xie, Jung Hua Tung, Yu-Chuan Kau, Chia-Chih Liao. ‘**Pulse Oximeter for Low SpO2 Level Detection Using Discrete Time Signal Processing Algorithm**’, Journal of Medical Devices, Transaction of ASME (American Society of Mechanical Engineers)



## Research Publications: Conferences

Sumit Pandey, Abhishek Mishra, Sandeep Sharma. “**Automatic Fire Initiated Braking And Alert System For Trains**” presented at Second IEEE International Conference on Advances in Computing and Communication Engineering ICACCE 2015 and published in the conference proceeding ISBN-13: 978-1-4799-1734-1 and also published in IEEE explore.

Tan Cher Ming, Udit Narula, Lu-An-Lai, Sumit Pandey, Zung Hua Tung, Chung Yi Li “**An Illustration of Predictive Maintenance on Medical Instruments using Haemodialysis Machines**”, ANQ Congress-2018 (Asian Network Quality, 19-20<sup>th</sup> September 2018, held in Almaty, Kazakhstan) (Selected as a best paper)

Sumit Pandey ,Amrindra Pal ,Sandeep Sharma., “**Smart Automatic News Paper Vending Machine Controller Ic**” Proceedings of National Conference on Striving and Thriving towards diffusion of student -driven research in science and technology for inspired learning, ISBN: 978-81-7273-958-4

Praveen Kant Pandey, Maneesha, Sandeep Sharma, Vivek Kumar, Sumit Pandey, “**An Intelligent Terrain Profiling Embedded System for Underwater Applications**” presented at 2018 4th International Conference on Computational Intelligence & Communication Technology (CICT) and published in the conference proceeding and IEEE xplore, doi: 10.1109/CICT.2018.8480329.



## Major Technical Skills

MATLAB | Python | Machine Learning | Data Analysis | MS-Office | R (novice)



## Posts Held

Vice President	IEEE-DIT Student Chapter	Aug 2014 - Aug 2015
Technical Head	SPIE-DIT Student Chapter (World's largest)	Aug 2014 - Aug 2015
Student Adviser	Literary Club, DIT, Dehradun	Aug 2014 - Aug 2015



## Extra Courses

“6.86x: Machine Learning with Python-From Linear Models to Deep Learning”, **Massachusetts Institute of Technology**. [certificate]

“Remote Sensing, Geographical Information System & Global Navigation Satellite System” Indian Institute of Remote Sensing a research center of **Indian Space research Organization (ISRO)**.



## languages

Language	Speaking Proficiency	Writing Proficiency
Hindi	Excellent (Native Speaker)	Good
English	Good	Good
Sanskrit	Intermediate	Good