SOMSIRSA CHATTERJEE

Assistant Professor, Chandigarh University | +91-8420896658 | somsirsa@gmail.com

Creative and business savvy professional with more than 4 years of progressive experience in Machine Learning (healthcare domain). Inherently interested in intelligent solutions for application in resource constrained and high burden settings with special emphasis on affordable point-of-care solutions.

SKILLS

Machine Learning and Artificial Intelligence

Deep learning

Team Building & Leadership

Public Speaking and Presentations

Verbal / Written Communication

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Professor— Chandigarh University   December 2018 - present

Member of Centre of Excellence for Artificial Intelligence

Member of Faculty Advisory Committee

Faculty Coordinator - Startup Club

International Relations Coordinator

Subject Coordinator (Artificial Intelligence and Machine Learning)

Data Scientist— PRM Fincon   November 2017 - December 2017

Development of deep learning and machine learning algorithms for IoT

Credit Risk Assessment

Data Analytics

Lead Engineer— Advenio TecnoSys   May 2015 - February 2017

Lead Engineer of Computer Assisted Detection of Retinal Abnormalities

Lead Engineer of Computer Assisted Detection of Tuberculosis from Digital Chest X-Rays

Published research publications at world conferences

Assistant Professor (Adhoc) —Guru Jambheshwar University of Science & Technology

August 2013 – December 2015

Taught Lectures on Signal and Image Processing, Bio-mechanics, Biomedical Instrumentation and Anatomy & Physiology

Supervised undergraduate (B.Tech) dissertations

Biomedical Engineer—Rabindranath Tagore International Institute of Cardiac Sciences

December 2009 – June 2010

Maintenance of critical care equipment

Relations with service engineers

Training of interns on critical care equipment

EDUCATION

M.Tech. in Biomedical Engineering
Jadavpur University

CGPA: 8.5/10
December 2012

Dissertation: Nonlinear Analysis and Temporal Evolution of Motor Imagery
Advisors: Prof. Dewaki Nandan Tibarewala, Prof. Amit Konar

B.Tech in Biomedical Engineering
West Bengal University of Technology

CGPA: 8.19/10
August 2010

Dissertation: Characterization of Heart Rate Variability among Tea Garden Workers of Northern Hilly Regions of West Bengal
Advisors: Prof. Ankur Ganguly

ORGANIZATIONS

Life Member of Indian Society of Biomechanics

Member of Society of Digital Information and Wireless Communications

RELEVANT PUBLICATIONS

1. Acharyya, M., Chatterjee, S., Kapoor, N., **A Novel Lung Segmentation and Rib Suppression Algorithm for Nodular Lesion Detection from Digital Chest X-Rays,** *Proceedings of International Symposium on Biomedical Imaging (ISBI 2016), Prague, Czech Republic*

2. Acharyya, M., Chatterjee, S., Kapoor, N., **An hardware-neutral Computer Aided Detection (CADx) platform for Tuberculosis interpretation from chest X-rays with advanced false-positive reduction,** *Proceedings of 46th Union World Conference on Lung Health, Cape Town, South Africa*

3. Acharyya, M., Chatterjee, S., *et al.*, **Low-cost, portable & high performance end-to-end eye care solution with computer aided detection for point-of-care diagnostics,** *Proceedings of 10th General Assembly of The International Agency for the Prevention of Blindness (IAPB), Durban, South Africa*

*last updated on 20th June, 2019