

PROFESSIONAL EXPERIENCE

Analyst-I Apps Prog, Bank of America Continuum India, Chennai, India Sep 2019 – Present

- Engaged in R&D and mapping process to holistically examine business flows for improvements.
- Currently working on DL based Image Enhancements to improve OCR accuracy for better Entity Extraction.
- Developed experimental Denoising models and boosted the text extraction accuracy from 65% up to 78%.

Senior Software Engineer, CES IT Pvt Ltd, Chennai, India May 2019 – Sep 2019

- Explored Ariel object detection using UAVs of effective management of pest infestation & nutrients.
- Improved the nitrogen deficiency detection in Cornfields using Agri-Drones and reduced fertilizer wastage by 15%.
- Developed a refined Recommender System with enhanced performance and won the Bordeaux's Viticulture Pests Management Project by outperforming the existing by about 20%.

Senior Machine Learning Engineer, Scientific Publishing Services, Chennai, India Apr 2017 – May 2019

- Led a business team of 3, identified potential areas of automation in Publishing Services.
- Saved procurement cost by about 35% by deploying AI Imaging Models into the Artwork production process flow.
- Designed NLP-based automated and maximized the total volume processed by 30 % and TAT by 12%.

TEACHING EXPERIENCE

Assistant Professor, Rajalakshmi Institute of Technology, Chennai, India May 2012 – Apr 2017

- Employed various learning styles and abilities to teach 8 different courses to undergraduate students.
- Managed additional responsibilities like Department coordinator for AICTE, NBA, Alumni, PTA, and Class In-charge.
- Orchestrated 30+ successful events and streamlined planners & budgets resulting in about 15 % savings per event.

Lecturer, Sakthi Engineering College, Chennai, India Jun 2011 – Apr 2012

- Served as Department of Computer Science's freshman coordinator for Mathematics & Computer Programming.
- Taught 2 subjects (Computer Programming & Operating Systems) and respective labs for undergraduate students.

EDUCATION

Francis Xavier Engineering College, Tirunelveli, India (Anna University, Chennai) 2005 – 2009

B. Tech in Information Technology | Grade: 73 | First Class

Manonmaniam Sundaranar University, Tirunelveli, India 2009 – 2011

M.Tech in Computer and Information Technology | Grade: 79.8 | First Class with Distinction

LANGUAGE & TECHNOLOGY

Languages : Tamil (Native), English (Fluent), French (Beginner)

Computer Skills : Python, R, Computer Vision, NLP, AWS, SQL, Machine Learning, Deep Learning

Certification : Data Science with R & SAS (Jigsaw Academy), Deep Learning & Neural Network (Coursera)

PATENTS & PUBLISHING

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- Filed 5 Patents related to Edge Intelligence, Image Enhancements and Bio-Inspired Networks.
 - Published 2 Papers related to Mass Screening of Diabetic Retinopathy in IJCTA (Sept-Oct Issue 2011) & Classification Algorithms in IJAER (Vol 3-Issue2 2016).

AWARDS & HONOUR

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- Received 2015's Best Teacher Award (IT Department) and Program Coordinator Award for 2016.
 - Received Bank of America's Performance Recognition Awards (Silver & Gold) in 2020 & 2021.

VOLUNTEERING

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- Volunteered as Exam Writer for close to 100+ visually impaired students between 2005 to 2011 at Govt. High School for the Blind, Palayamkottai, India.
 - Volunteered for mentoring 200+ Government School students for Computer Science courses during 2013 to 2017.