ALAAP SARKAR

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ENTRY LEVEL ENGINEER | ARTIFICIAL INTELLIGENCE | ROBOTICS | MACHINE LEARNING

PROFILE & VALUE

- Postgraduate in Intelligent Systems and Robotics possessing a wealth of academic knowledge and hands-on experience in areas of Robotics, Artificial Intelligence and Machine Learning
- Demonstrated expertise in Artificial Neural Networks, Deep Learning Frameworks, Fuzzy Systems and Statistical Modelling; a list of projects that I have done can be found at my GitHub page
- Demonstrated proficiency in Project Management with abilities to contribute towards project planning, scoping & achieving the milestones within the defined timelines

PROFICIENCY FORTE

Machine Learning
Computational Optimisation
Algorithms & Data Structures
Project Management
Problem Solving
Quick Learner
Influential Communication
Prioritisation Skills

EDUCATION & CREDENTIAL

Academia	**De Montfort University**, Leicester, UK, 2018 – 2019 - M.Sc. Intelligent Systems and Robotics - **Master's thesis**: Distinction - **Degree classification**: Merit **S.R.M University**, Chennai, India, 2014 – 2018 - Bachelors of Technology – Mechatronics Engineering - CGPA: 7.41/10
Internship	**AiEdge (3rd Feb'20 – 6th Mar'20)** - Applied NLP for file search system which included extraction of keywords, dates and phrases for indexing and search using natural language.
Coursework	- Intelligent Mobile Robots - Computational Intelligent Optimisation - Applied Computational Intelligence - Artificial Neural Networks - Mobile Robots - AI Programming (Prolog) - Research Methods - Fuzzy logic
Masters Projects	**Neuroevolutionary and Tailored Algorithm for seriously Large-Scale Problems** - LMMAES algorithm for neural network optimisation tested and improved on KDD cup MNIST data set The documentation and implementation can be found on my GitHub page - Neural network classifier for KDD Cup 1999 Data - Implementation and improvement of the S algorithm for Convex Optimization - A memetic algorithm based on the S algorithm and Differential Evolution - Naive Bayes classifier to implement a controller for a robotic arm - Implementation of a particle filter for localisation
UG Project	**Design and development of control system for biomechanical testing device** - Design and fabrication of a 2 DOF (roll and vertical linear motion) bone and low load application device The device is capable of testing the effects of load on low load human parts in X and Y planes
Professional Development	- Kaizen Robotics Program - PLC Programming and Application - Organised national workshop on Robotics and Automation - Industrial training at Hindustan motors - TensorFlow in Practice Specialisation, Coursera - Control Engineering course from NPTEL - Organised one day workshop on Smart Actuation using SMA - Short term training program on AI for Engineers - Control of Mobile Robots' course, Coursera - Deep Learning Specialisation, Coursera

- Java Programming: Solving Problems with Software, Coursera

ADDITIONAL INFORMATION

Languages: English, Hindi, Bengali and French
IT Proficiency: MS Office, LaTex, MATLAB, Python, Prolog, TensorFlow, Keras, Java
References: Available on request