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

ADDITIONAL INFORMATION

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