Elita Lobo

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loboelita@gmail.com
+1 4135398473
https://elitalobo.github.io,
https://github.com/elitalobo

Education

Ms/PhD Computer Science at University of Massachusetts Amherst | 2018-Current

BTech Electronics and Communication Engineering NIT Durgapur | 2012-2016

Achievements

–Recipient of UMass Robin Popplestone Fellowship in Robotics and Artificial Intelligence (2019)
–Won 1st Place in Hackday 10 (Marketplace Category) conducted by Flipkart.
–Won 3rd Place in ML Challenge 3 conducted by Flipkart
–Won 1st Place in Hackathon (2017) conducted by Endurance International Group
–Won 2nd Place in ML challenge 2 (2018) conducted by Flipkart.
–Secured 98 rank in Code Jam to IO for Women conducted by Google 2017
–Secured Rank 372 in Google APAC 2016 Round B.
–Secured 1st Place in Trickology (Coding Event) conducted by Department of MCA at NIT Durgapur in 2013.

Pet Projects

–Developed an ensemble model for classifying user queries into queries for male and female products using Random Forest Classifier, XGBoost Classifier, FastText, Count Vectorizer and TFID Vectorizer.
–Developed an ensemble model to predict if a particular good in inventory will loose its value within 4 weeks.
–Developed an in-house Mask Region-based Convolution Networks model for detecting logo infringement of 5 popular brands - Nike, Adidas, Puma, Reebok, Lotto

Research and Projects

Sep'19 **Masters Project** Advisor: Dr. Marek Petrik
Currently working on developing an efficient risk-averse RL algorithm for RMDPs using CVAR criterion and S-rectangular ambiguity sets

Jan'19-May'19 **Perceptual Robotics Lab** Advisor: Dr. Roderic Grupen
Developed a Hierarchical Reinforcement Learning for generating robust and diverse skills using Deep Embedded Encoding.
Report: shorturl.at/bkoL9

Sep'18-Dec'18 **Center for Smart and Connected Societies** Advisor: Dr. Prashant Shenoy
Worked on peak days forecast for peak shaving in energy grid using Deep Learning (LSTMs and MultiLayer Perceptron)

Aug'15-May'16 Advisor: Dr. Rajib Kar
Developed an algorithm for efficiently minimizing floor planning area using a variant of PSO algorithm and Greedy approach. Implemented the code in C++.

Aug'15-May'16 Advisor:Dr. Aurpan Majumder
Developed a model for classifying EEG signals into 3 classes - normal, ictal and interictal epilepsy with 98.6% accuracy using Wavelet Transform and Random Forests and Neural Networks.

Research Interests

Robust Reinforcement Learning, Hierarchical Reinforcement Learning, Optimizations, Machine Learning

Courses And Teaching Assistantships

Courses: Reinforcement Learning, Optimizations, Probabilistic Graphical Models, Machine Learning
Teaching Assitantships: Operating Systems CS377, Reasoning under Uncertainity CS240, Numerical Optimization CS590OP

Work Experience and Internships

Aug'17-Jul'18 **Software Engineer** Flipkart, Bengaluru
Contributed to the development of Inventory Valuation System,Price Drop API and Invoice Register and Stock Ledger API.
Developed a Machine Learning model to detect anomalous payouts made to sellers due to various bugs in the accounting system.

Jul'16-Aug'17 **Software Engineer** Endurance International Group, Bengaluru
Developed webpro orchestration layer API, smart search API for customers and session manager for OrderBox.
Developed a service to detect if a domain is parked using ML.
Developed a web app that allows users to search trending images based on keywords and filter them by color and type.

Sep'16-Mar'16 **Research Trainee** Indian Institute of Science, Bengaluru
MSR Codes: Worked on integration of minimum storage regenerating code developed by IISc team in Ceph.
Paper : shorturl.at/sFRW9

May'14-Jul'14 **Summer Intern** GOIBIBO, Bengaluru
Designed a Machine Learning framework to predict time to live of each flights search results to be cached to reduce the no of price invalidations that occur when navigating from search page to booking page.
Developed a Distributed In-Memory Cache wherein the servers in the network communicate using Bus Protocol.

May'16-Aug'16 **Summer Intern** Google Summer of Code
Revamped the User Interface of Gnome-Calculator, implemented the Keyboard Mode and History View.