Maithrreye Srinivasan

maithrre@ualberta.ca | http://linkedin.com/in/maithrreye-s | maithrreye | +1-587-937-4305
Edmonton, Canada, T6G 1L5

EDUCATION

University of Alberta, Edmonton *Sep. 2019 – Dec 2021* (exp)
Master of Science in Computing Science GPA: 3.4/4.0
Coursework: Introduction to Machine learning, Probabilistic Graphical Model, Information Extraction and Knowledge Graphs, XAI in Games.

Thiagarajar College of Engineering, Anna University, India *May 2016*
Bachelor of Engineering, Computer Science GPA – 9.32/10
Courses: Data structures, Design Analysis of Algorithms, Database System, Operating System, Computer Networks, Object-Oriented Programming.

SKILLS

Languages:	Python, Java, C, R, SQL, Bash, HTML, CSS
Machine learning Libraries:	Pandas, Scikit-Learn, NumPy, Matplotlib, SpaCy, NLTK, CoreNLP.
Framework:	Keras, TensorFlow
Tools:	Git, MATLAB, Docker, Procreate
Cloud Platform:	Azure, AWS, and Google Cloud Platform
Operating System:	Linux, Mac, Windows

WORK EXPERIENCE

Graduate Research Assistant Fellowship *April 2020 – Present*
- Implemented baseline models in Generative and Deep learning approach for Named Entity Disambiguation.
- Carried out case analysis to see when syntactic and semantic text feature fails to disambiguate the named entities to the knowledge base.
- Working on developing a model to use location as feature to disambiguate mentions to correct entities in Wikipedia.

Azure Cloud Engineer *Aug 2016 – Aug 2019*
Microsoft India (R&D) Pvt Ltd, Bengaluru, India
- Provide technical solutions to enterprise customers and partners in Azure Infrastructure, Networks, and Security.
- Developed predictive model for understanding customer sentiments in the support delivery.
- Collaborated with the development team to demystify the internal architecture of Azure Traffic Manager and wrote an internal blog to help engineers across sites to understand the same.
- Delivered training to Microsoft partners and vendors on cloud technologies that include Azure Networking, Virtual Machines, Storage, Security.
- Mentored junior engineers in new hire ramp up.
- Awarded with Powerplay for 95% Customer/Partner satisfactory feedback in Q2 2017 and Q3 2018.
- Awarded with ACE Awards for delivering a quality solution and helping peers to grow in the team.

Research Intern *Dec 2015 – April 2016*
Indian Institute of Technology, Madras, India
- Developed a model that demonstrates simplex vector representation of documents in topic space could be applied to the nearest neighbour search on a large corpus of text documents and compared with traditional Min-Hash method, LSH method, and k-NN method.
- Model outperformed state of art models with an accuracy of 72%.

RESEARCH PROJECTS

Intelligent Reversi using Genetic Algorithm *Jan 2020 – April 2020*
- Developed Domain-specific language (DSL) for two-player reversi game.
- Used DSL with the genetic algorithm to find the best strategy that can beat players making random moves and strategical move.

Named Entity Recognition using Neural Entity Embeddings *Jan 2020 – April 2020*
- Developed a neural model that can classify named entities to their types using pre-trained entity embeddings.
- The model predicted the named entity types with 82% precision and 80% recall.

Individual Patient Survival prediction using Graphical Models *Sep 2019 – Dec 2019*
- Developed models that can learn structure and parameters using the hill-climbing algorithm and predict survival probability and distribution curve for each cancer patient at specific timepoints.

Breast Cancer Classification – Comparison of Machine learning Algorithms *Sep 2019 – Dec 2019*

- Evaluated machine learning algorithms like Logistic Regression, k-NN, and Support vector machines on the Wisconsin Cancer dataset.

Multi-Agent Framework for Cloud Service Composition *August 2015 – Nov 2015*

- Developed Mathematical Model for Consumer and Service Provider Agents and their negotiation bidding for Cloud Commerce.
- Presented the work in the International Conference on Emerging Trends in Engineering, Technology, and Science (ICETETS'16). The Conference proceeding in the IEEE journal.