

VIMAL VENUGOPAL

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📍 Toronto, Ontario

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SUMMARY

- As a recent Machine Learning Masters graduate, am equipped with skills and knowledge necessary to excel as a Machine Learning Engineer.
- In addition, am eager to bring my technical & soft skills gained by being an IT professional for over 12 years,

TECHNICAL SKILLS

- Machine learning frameworks: Pytorch, scikit-learn
- Knowledge of Machine Learning algorithms and techniques
- Familiarity with Deep learning: CNN, RNN & GANs
- Experience with numpy, pandas & matplotlib packages
- Experience with Cloud: GCP & Docker
- Experience using Jupyter & Tensorboard Visualization
- Knowledge of statistics and probability
- Experience with Programming skills: Python, Java
- Experience with databases: MySQL, Oracle
- Version Control: Git

EXPERIENCE

Senior Principal Professional Services Consultant Genesys

📅 Sept 2019 - Current 📍 Toronto, Canada

- As a Solutions Design Lead, was responsible for conceptualizing, planning & implementation of Genesys Telephony software across a range of Fortune 100 companies' premise & cloud (Telephony) systems.
- Developed an experimental regression model to predict Estimated Waiting Time (EWT) & Average Handle Time (AHT) from Call Detail Records with 98% accuracy.

Principal Professional Services Consultant Genesys

📅 Oct 2014 - Sept 2019 📍 North Carolina, USA

- As a Technical Project Lead, delivered multiple technical implementations of Genesys Telephony software from Pre-sales to Support Transition in both Waterfall & Agile methodologies.

Technical Analyst Infosys Ltd

📅 Nov 2013 - Oct 2014 📍 North Carolina, USA

- Developed batch processes in Java for API integration that allowed customer to receive data visualizations in email

Senior Systems Engineer Infosys Ltd

📅 Jul 2010 - Nov 2013 📍 Chennai, India

- Developed web applications in Java that enabled automation of operation activities

EDUCATION

Masters in Computer Science
ML specialization | 4.0 GPA

Georgia Institute of Technology

📅 2020 - 2023* 📍 Atlanta, USA

Bachelors of Engineering
Electronics & Communications | 85%

Anna University

📅 2006-2010 📍 Coimbatore, India

Oracle Certified Professional
Java Programmer 6

Oracle Certified Expert Web Component Developer 6

Microsoft Certified Professional -
Querying Microsoft SQL Server

PROJECTS

Semi-Supervised Learning (SSL)

- Summary: Goal was to re-implement Fix Match SSL Algorithm on CIFAR-10 database and run ablation experiments on the essential components of Fix Match. Fix Match algorithm supplements limited labelled data by augmenting the images to produce additional labeled data. Was able to get an accuracy of 94.67% on using only 250 labeled examples on a WideResNet CNN Model.
- Tools Used: Python, Pytorch, Numpy, Tensorboard,
- Hardware Used: Google Colab (A100 GPU)
- Github Link: https://github.com/vimvenu-rgb/Fix_Mix_Match-Project

Reinforcement Learner

- Summary: Goal was to configure a multi-agent Asynchronous Advantage Actor-Critic (A3C) algorithm, train it in a reduced Google football multi-agent environment and evaluate the trained agent against three baseline agents. A3C algorithm was chosen to solve the multi-agent MDP problem as A3C inherently supports concurrent training of multi-agent policies and the Advantage function reduces high variance during the policy gradient update.
- Tools Used: Docker, Ray RLib, Tensorboard, Pytorch
- Hardware Used: Google Cloud Platform (GCP)
- Github Link: https://github.com/vimvenu-rgb/A3C_RL_Project