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PIYUSH SHRIVASTAVA
Boston, MA
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EDUCATION

Northeastern University, Boston, MA

Khoury College of Computer Sciences

Candidate for Master of Science in Computer Science

Jan 2019 – Present

Expected Graduation – May 2021

Related Courses: Introduction to Research, Natural Language Processing, Machine Learning

R.G.P.V University, Bhopal, India

Aug 2016

Bachelor of Engineering in Computer Science

Related Courses: Data Structures, Object Oriented Programming, Neural Networks

TECHNICAL KNOWLEDGE

Languages: Python (proficient), Java (proficient), C++(proficient), C (proficient), PHP(intermediate), JavaScript (intermediate)
Systems: Windows, Linux, MacOS
Software: Visual Studio, Octave, Oracle Database Cloud, AWS Athena
Frameworks: Tensorflow, PyTorch, spaCy
Trainings: Linux Administration, Oracle Cloud Infrastructure Foundations

WORK EXPERIENCE

Technical Intern, Oracle, Cambridge, MA

May 2020 – Dec 2020

- Developed and integrated the deep-learning based ID management model PoC with UGBU-LEC server.
- Designed and implemented the embedded and standalone flavors of ETL-based batch creation process in integration with Network Management System.
- Active participation in Oracle-wide machine learning events and conventions.

Machine Learning Intern, LiveData Utilities, Cambridge, MA

Jan 2020 – April 2020

- Developed an adaptive translation model with Tensorflow to optimize SCADA to NMS translation.
- Pipelining of the machine learning model into the existing communication system.

Research Fellow, Khoury College of Computer Sciences, Boston, MA

Sept 2019 – Dec 2019

- Worked on sample-based planning with deep learning as an extension of Direct Cross-Entropy (DICE) for Decentralized POMDPs.
- Implementation of decentralized Asynchronous Actor-Critic using TensorFlow for search simulations.

Full Stack Developer, Srimayi Innovations Pvt. Ltd., Hyderabad, India

Nov 2017 – Sep 2018

- Developed and deployed the native android app Vihik, along with source code control.
- Integrated AWS services in collaboration with offshore development teams.

PROJECTS

Neural Code Summarization, Khoury College of Computer Sciences, Boston, MA

Sept - Dec 2020

- Automatic generation of code descriptors using Bidirectional LSTM and Attention.
- Generated a commit and message based dataset based on popular GitHub repositories to be used for summarization, evaluated with BLEU and ROUGE metrics.

Vector Quantized-Variational Autoencoder, Khoury College of Computer Sciences, Boston, MA

Sept - Nov 2019

- Implementation of VQ-VAE for representation learning with a prior learnt using PixelCNN.
- Evaluation of performance on MNIST and multi-agent reinforcement learning environments.