

Sreelaya Devaguptam

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EDUCATION

Northeastern University

Boston, USA

Master's in Artificial Intelligence

Mar 2023

- Relevant Coursework: Machine Learning, NLP, Foundations of Artificial Intelligence, Algorithms
- Graduate Teaching Assistant for Mobile Application Development

KEY PROJECTS

Image Captioning System

- Designed an Image Captioning system in four distinct architectures: encoder-decoder, multi-modal, encoder-decoder with attention, and encoder-decoder with transformers using Flickr8k Image/ Caption Dataset.
- Used different encoders in each architecture: VGGNet, ResNet, Inception; Beam Search for Sentence Generator; and Bleu Score Metric for evaluation.

GAN Image Generation

- Developed a Generative Adversarial Network for producing CIFAR10 pictures with 96 percent discriminator accuracy.
- Implemented best practices in defining the discriminator model, such as the use of LeakyReLU, using Dropout, and using the Adam version of stochastic gradient descent with a learning rate of 0.0002 and a momentum of 0.5.

WORK EXPERIENCE

Digital Bank of Singapore

Hyderabad, India

Application Specialist

Jul 2019 - Jul 2021

- Engaging in the domain of Soft Token for Security reduced the number of customers experiencing issues by 90%, resulting in an increase in the ratings of the DigiBank SG iOS application from 3.9/5 to a consistent 4.8/5 on the App Store.
- Certified for "Application Security Titan Bronze Level" and "SRE Practitioner by EASRE" by DBS.
- Earned the "Dare To Try" award for the third quarter of 2020.

Monexo Fintech

Chennai, India

Android Developer Intern

Jan 2019 - Mar 2019

- Integrated OCR and QR detection into the Monexo Android application using Google's MLKit, to automate the user registration process, lowering the time required by a fourth.
- Streamlined user background verification using Perfios integration and human face detection.

Microsoft Corporation

Hyderabad, India

WISE Mentee

Oct 2017 - Aug 2018

- Published an Android app BCause with two peers that allows community service organization. It was the second most popular trending item in the category.
- Infused the AI capabilities of Azure Cognitive Services with Azure Database Services to create a chatbot called "Zumo" that works as a personal journal.

ACTIVITIES

- Certified in Introduction to Deep Learning with PyTorch, Intermediate SQL, Supervised Learning with scikit-learn from Datacamp and Stanford University's 'Machine Learning by Andrew NG' course with a score of 95.7 percent.
- Implemented 'Customizing Youtube Recommendations using Python', incorporating criteria such as the viewer-to-subscriber ratio and the views threshold, among others, and a Google Assistant Action that is activated by the phrase "Help with GRE."
- Secured prizes for the projects that were displayed at the Engineers' Day exposition for years 2017 and 2018.

SKILLS

Skills: Machine Learning, Python, NLP, Android, Swift, Java, C, SQL, Firebase, Web Development

Languages: English, Spanish, Hindi, Telugu

