VIGNESH NARAYANASWAMY

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EDUCATION

UNIVERSITY OF ILLINOIS AT CHICAGO

CHICAGO, ILLINOIS

Master of Science in Computer Science

Anticipated May 2021

Focus Areas: Deep Learning, Machine Learning, Data Science

Cumulative GPA: 4.0/4.0

ANNA UNIVERSITY (VELAMMAL ENGINEERING COLLEGE)

CHENNAI, INDIA

Bachelor of Engineering in Electrical and Electronics Engineering

April 2017

Cumulative GPA: 8.17/10.0 **TECHNICAL SKILLS**

Programming Languages: Java, Python

Frameworks/Technologies/Libraries/Databases: TensorFlow, PyTorch, Fastai, NumPy, Scikit-learn, Pandas, Struts, MySQL, Microsoft Azure, Jupyter, PySpark

EXPERIENCE

MARINER CHARLOTTE, NC

Data Science Intern (Remote)

January 2021 - Present

- · Deployed a PixelLink-like deep learning model on Azure to detect text in engineering drawings.
- · Working on GenICam Python SDK to detect and control GigE Vision cameras.

UNIVERSITY OF ILLINOIS AT CHICAGO

CHICAGO, IL

Graduate Student Researcher

March 2020 - December 2020

- · Used OpenCV to synchronize multi-perspective videos by tracking a moving object in the video streams.
- Trained Time Contrastive Networks on unlabeled multi-perspective videos to learn viewpoint-invariant representations, which were later used to aid a robot (UR10e) to imitate tasks performed by a human demonstrator.

MARINER CHARLOTTE, NC

Data Science Intern (Remote)

June 2020 – August 2020

- · Annotated engineering drawings using CVAT tool and prepared datasets to train text detection and segmentation models.
- Utilized OpenCV and PixelLink-like text detection model from OpenVino respectively to detect objects and text in engineering drawings.
- · Fine-tuned U-Net and DeepLab segmentation models and used them along with Azure OCR for localized information extraction from engineering drawings.

ZOHO CORPORATION CHENNAI, INDIA

Member Technical Staff | Zoho Creator

May 2017 - June 2019

- Enhanced Zoho Creator's API infrastructure by rewriting them using updated internal frameworks for data retrieval and caching resulting in reduction of performance bottlenecks by up to 75%.
- · Developed tools using Bash and Python to automate DevOps processes, saving developers up to 20 minutes every day.
- Facilitated planning and review discussions with customer support teams and project leads to establish project goals and timelines.

PROJECTS

INCORPORATING BERT INTO ABSTRACTIVE TEXT SUMMARIZATION

May 2020

· Led a team of graduate students in building and training a custom Transformer architecture with a pre-trained BERT encoder backbone on CNN Dailymail dataset to summarize news articles.

ALZHEIMER'S DISEASE DIAGNOSIS USING DEEP LEARNING

May 2020

 Headed a team of two graduate students in designing Deep 3D Convolutional Networks to diagnose Alzheimer's Disease and Mild Cognitive Impairment using 3-D neuroimages and patient demographics.

CERTIFICATIONS

· Neural Networks and Deep Learning by deeplearning.ai on Coursera.

January 2020

 Introduction to TensorFlow for Artificial Intelligence, Machine learning and Deep Learning by deeplearning.ai on Coursera. January 2020