

JAYARAMAN SRIDHARAN

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EDUCATION

M.S in Intelligent Systems Engineering

Indiana University, Bloomington

2022 - 2024

GPA: 4.0

Relevant Coursework: Deep Learning Systems, Machine Learning for Signal Processing, Computer Vision, Graph Machine Learning and Analytics, Deep Learning Hardware Acceleration, Intro to Intelligent Systems

B.Tech in Electrical & Electronics Engineering

SASTRA Deemed University, India

2015 - 2019

EXPERIENCE

Senior Systems Engineer Nov 2019 - June 2022

Infosys Limited

Computer Vision - Object Detection, OCR

- Collected, annotated, and preprocessed 1000+ images to detect tables and column headers
- Trained an Object detection model using YOLOv5 algorithm to detect tables and columns in invoices
- Saved manual labor by converting invoices into a structured csv by using OCR packages

Natural Language Processing

- Implemented and trained NLP models for Sentiment analysis, Summarization and Similarity Detection

API Development

- Created APIs for many applications / models using Django and Flask to make them easily accessible

Web Development, Data Visualization

- Led a team to migrate the web application from old Angular.js framework to latest Angular 12 framework

Containerization, Removing Vulnerabilities

- Containerized numerous applications using Docker
- Found and fixed vulnerabilities in the Docker images before it got to production

SKILLS

Machine Learning, Deep Learning, Computer Vision, NLP, GANs, Graph Neural Networks, Neural Network Optimization

Python, Tensorflow, Keras, Pytorch, OpenCV, Scikit-learn, NLTK, Spacy

C++, HTML, JavaScript, Node.js, Express.js, Angular, Web Scraping, D3.js, MySQL, MongoDB, Django, Flask, Git, Docker, AWS

PROJECTS

• Image Colorization using GAN

Trained a Generative Adversarial Network to color black and white images

• Wildlife Image Classification in Camera Trap Images

Used Cyclical Learning rate

• Named Entity Recognition using LSTM

• Classifying Disaster Response Messages TF - IDF, Random Forest

• Face Detection & Face Recognition

YOLOv2, FaceNet

AWARDS & CERTIFICATES

• Won the AI Blitz #3 Hackathon

Solved 5 AI problems themed around U.N's Sustainable Development Goals using Computer Vision and NLP

• Secured Top 2% rank in Open AI Caribbean Challenge

Trained CNNs to classify the material of rooftops from satellite imagery

• Top 12% in Kaggle - RSNA Intracranial Hemorrhage Detection Hackathon

Trained multiple CNNs and ensembled them to predict the probability of different types of brain hemorrhage from CT scans

• Deep Learning Specialization

Deeplearning.ai , Coursera