Reshav Abraham

Full Stack ML Engineer

about me
I am a passionate software engineer interested in Full stack development and machine learning. I have experience building backend API's and Frontends. I also have experience in training and serving machine learning models.

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Work Experience

Nlmatics

NLP Engineer

New York, NY — October 2019 - April 2021

* Improved text indexing from PDF documents to enhance search retrieval quality.
* Designed back-end APIs with Python and Swagger.
* Built out front-end features with React and ANT design.
* Lead on-prem installation for clients and deploying on restrictive environments.
* Maintained and debugged CI/CD pipelines, with Docker and Kubernetes.

Dell EMC

Software Intern

Charlotte, NC — May 2017 — August 2017

* Optimized memory usage for enterprise data pipelining software by modeling a regression on real-time memory consumption data using Apache Spark.

Certificates

Natural Language Processing with Deep Learning
CS224N, Stanford University, October 2020 — December 2020

* Developed a Neural Machine Language Translation model in PyTorch.
* Implemented encoder and decoder networks using LSTM and CNN layers for processing out-of-vocabulary words.

Projects

Human Voice Detection

* Developed a neural network architecture using CNN and linear layers for processing audio signals to identify human voices.
* Developed a script for scraping audio from YouTube playlists.
* Utilized MFCC and other signal processing techniques to prepare data.

Technical Skills

Programming Python, JS, Docker, Kubernetes

Frameworks PyTorch, Tensorflow, Swagger, React

Coud GCP, Azure

Databases MongoDB, Postgress, Redis

Markup LaTeX, HTML, CSS

Education

B.S Computer Engineering
Purdue University

West Lafayette, IN — 2014 — 2018

Multi-core Processor System Verilog

* Implemented a synthesizable multi-core processor for processing MIPS assembly language in SystemVerilog.

Automated Nerf-Gun Turret

* Engineered a turret gun that detects human targets and shoots Nerf darts at them.
* Designed a human-target detection algorithm with MobileNetSSD and OpenCV.