

Aakaash Jois



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INDUSTRY EXPERIENCE

Machine Learning Engineer

July 2019 - Current

Kalepa Corporation – New York, NY

- Experience handling machine learning projects from data ingestion to model deployment in a rapid environment
- Contributed to writing scalable services and API around machine learning models
- Created pipelines to ingest and normalize raw data from multiple sources
- Developed Spacy based NLP pipelines to train and deploy models on AWS SageMaker
- Implemented Classical Machine Learning models which provide high risk insights to insurance underwriters
- Developed Deep Learning based Computer Vision models on Google Cloud Vision
- Worked with clients to understand their requirements and how it can be helped through machine learning

Deep Learning Research Intern

June 2018 – August 2018

Frenzy – New York, NY

- Improved the multiple R-CNN models to identify fashion items in images and increased accuracy by 30%
- Contributed to development of Pose Estimation model to identify the structural pose of the humans in images
- Created a Hierarchical CNN model to classify fashion items in images

Project Intern

January 2016 – April 2016

Indian Space Research Organization – Satellite Centre – Bengaluru, India

- Implemented computer vision algorithms on the Chandrayaan-2 project with Controls Division and Electronics Group
- The algorithm helps the lunar rover identify the distance of objects seen by its stereoscopic camera



ACADEMIC PROJECTS

Plant Tracer

February 2019 – May 2019

Deep Learning Object Tracking – Python, PyTorch, Caffe2, OpenCV, Data Annotation

- Annotated a dataset of time-lapse videos which capture the movement during growth of a plant
- Trained an image-comparison regression-based tracking architecture to track the movement of the plant

News Dashboard

October 2018 – December 2018

Big Data Analytics – Docker, Python, Spark, Kafka, MongoDB, NLTK, Scikit-Learn, BeautifulSoup, Sumy, Zeppelin

- Designed a scalable big data architecture to ingest news articles from multiple news sources, perform summarization on these articles using big data technologies
- Keyword extraction was also performed on these articles to provide insights and visualizations

Colorizing Grayscale Images

March 2018 – May 2018

Image Colorization using Generative Adversarial Neural Networks – Python, TensorFlow, Keras, PIL

- Implemented a novel CNN and DC-GAN architecture to add colors to grayscale images

Dense Recurrent Net for Speech Command Classification

April 2018 – May 2018

Audio Classification using Convolutional and Recurrent Neural Networks – Python, TensorFlow, Keras, Librosa

- The project validates a variety of end-to-end deep learning architectures can be used reliably to classify very short human speech commands



EDUCATION

Master of Science in Electrical Engineering – 3.583

May 2019

New York University – New York, NY

Courses: Machine Learning, Image and Video Processing, Programming for Big Data Analytics (worked as a Teaching Assistant), Audio Content Analysis, Digital Signal Processing, Robot Localization and Navigation

Bachelor of Engineering in Electronics and Communication Engineering – 3.653

June 2016

Visvesvaraya Technological University – Belgaum, India

Courses: Digital Signal Processing, Image Processing, Engineering Mathematics



TECHNICAL SKILL

Languages: Python, MATLAB

Tools: TensorFlow, PyTorch, Fastai, Keras, Scikit-learn, Pandas, OpenCV, Spacy, Hadoop, Spark, Git, OpenAPI, Docker

Skills: Computer Vision, Deep Learning, Supervised/Unsupervised Classification, Machine Learning, Exploratory Data Analysis