Prashant Anand

Machine Learning Engineer

EXPERIENCE

Machine Learning Engineer @ Mercari, Inc.

Oct 2019 - Present // Tokyo, Japan

- Develop a microservice for automatic reply to customer inquiries
  - Develop a scalable, observable and reliable microservice with suitable capacity planning, distributed tracing, monitors with actiobale alerts, timeboard, auto-scaling and automated rollback
  - Train and deploy NLP models and migrate training pipeline to kubeflow.
  - Negotiate with stakeholders to create a release plan.
  - Use Kubernetes and istio for service deployment and traffic management.
- Collaborate with EM to organize weekly tech talks for AI team members.

Machine Learning Intern @ SixSense Pte. Ltd.

June 2019 - Sep 2019 // Singapore

- Developed a deep learning based pipeline for classification, detection and segmentation of manufacturing defects present on semiconductor wafers and ICs
- Developed machine learning models to detect defective wafers and to predict the defect count in defective wafers using virtual metrology

Machine Learning Intern @ Wipro Limited

May 2018 - July 2018 // Bengaluru, India

- Developed an automated review system for SoWs (Statement of Works) using NLP
- Developed machine learning models to forecast revenue on project and contract level for upcoming months

PUBLICATIONS

Data Driven Sensing for Action Recognition using Deep Convolutional Neural Networks

Lecture Notes in Computer Science, vol 11941. Springer, Cham // Dec 2019

- Developed a novel data-driven undersampling method using sub-pixel convolutional layers and integrated it with Inflated 3D ConvNet for action recognition
- Successfully performed action recognition on both UCF-101 and HMDB-51 datasets at multiple (including very high) under-sampling ratios with small drop in accuracy

Compressive Sensing Based Privacy for Fall Detection

Lecture Notes in Computer Science, Springer // Dec 2019

- Developed a privacy preserving fall detection framework based on block based compressive sensing and deep learning which works with wide variety of sensing matrices

Artificial Neural Network based controller design for SMPS

IEEE Xplore Digital Library // Oct 2019

- Designed a controller using neural network for half-bridge converter based SMPS to replace conventional PID controllers

Few Shot Speaker Recognition using Deep Neural Networks

Preprint // Apr 2019

- Developed a few shot speaker identification framework using deep convolutional neural networks with prototypical loss
- Performed speaker identification and few shot speaker identification tasks on Voxceleb dataset using Capsule Network, VGG and ResNet34 architectures
- Showed generalisation capability of the networks on both tasks by performing experiments on VCTK Corpus

CONTACT

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- linkedin.com/in/prashant616

SKILLS

Programming Languages

Python, Golang, C, C++, Java, SQL

ML Libraries & Frameworks

Tensorflow, Keras, PyTorch, NLTK, Scikit-Learn, Open-CV, Pandas, Numpy

Tools & Platforms

Kubeflow, Kubernetes, Istio, Spinnaker, Datadog, Sentry, CircleCI, Docker, Terraform, Google Cloud Platform, gRPC, Git, BigQuery, MySQL, MongoDB

Areas of Interest

Deep Learning, Natural Language Processing, Distributed Systems, Computer Vision, Speech Recognition

EDUCATION

Indian Institute of Tecnology (IIT), Delhi

July 2015 - May 2019 // New Delhi, India

Bachelor of Technology in Electrical Engineering

LANGUAGES

English, Hindi, Japanese

HOBBIES

Table Tennis, Kayaking, Hiking, Video Games