

Takao Mizuno

MACHINE LEARNING ENGINEER

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Skills

Languages Python, JavaScript

Frameworks PyTorch, torchaudio, Tensorflow, Keras, scikit-learn, NumPy, Pandas, SQL, Django, Django REST Framework, Flask, OpenAPI, Docker, Terraform, React, Next.js, TypeScript, Ant design, Redux(toolkit), GraphQL, Apollo

Experience

AI-dea Inc

Tokyo, Japan

MACHINE LEARNING ENGINEER / (EXECUTIVE OFFICER)

May 2018 - PRESENT

- Developing Unstructured document OCR (privated)SaaS for companies selling a hospital equipment. Technology Stack: CRNN-based OCR, SSD-based Text Detection, Metric Learning based Document Identification, (Named) Entity Recognition, ECS, Django-REST-Framework, React, Next.js, Auth0 and Stripe
- Developing Automatic Meeting Minutes Service. Technology Stack: Multi-channel Speaker Separation, Speaker Identification, Text Summarization, Named Entity Recognition, Important Keyword Extraction

9DW Inc

Tokyo, Japan

CHIEF MACHINE LEARNING ENGINEER

Apr 2017 - Jan 2019

- Developed(in a joint R&D project) the beta version system of Speech-to-Text for a hospital operation. Researched Single-channel Speech Separation, Noise Reduction, Speech Enhancement and Speech Recognition. Finally submitted a demo system and a report(50 pages). I attended ICASSP and Interspeech for researching them.
- Developed demo system for the automation of the outbound call center. I developed speech recognition, dialog system and speech synthesis. Speech Recognition: Combining with self-trained model and provided public APIs, Dialog System: Used Sequence to Sequence model, Templated system, Slot Filling, and Speech Synthesis
- Developed Face recognition and Video Tone Correction engine exhibited to InterBee 2017, which is an exhibition for audio, video and communications.
- Developed face recognition model and automatic tone correction model with basic Convolutional Neural Network.

Klavis Corp

Tokyo, Japan

MACHINE LEARNING ENGINEER (SUBCONTRACTING)

Jun 2018 - Dec 2018

- Developed, researched handwritten, and printed text OCR engine using CRNN-based transfer learning from Chinese OCR.

Est rouge Inc

Tokyo, Japan

MACHINE LEARNING ENGINEER (SUBCONTRACTING)

Apr 2017 - Mar 2018

- Developed and deployed Machine Learning API engines for Text Summarization and Image Captioning. Technology Stack: Python, Bottle, Chainer, MySQL, scikit-learn, Gensim, Word2Vec, fairseq

Spiral Inc

Tokyo, Japan

SOFTWARE ENGINEER INTERN

Sep 2016 - Mar 2017

- Developed the demo system of inner automatic drone operation to manage merchandises in the warehouse. This system is under the patent application.

Education

Kobe University

Kobe, Japan

BACHELOR OF ENGINEERING IN ELECTRICAL AND ELECTRONIC ENGINEERING

Apr 2012 - Mar 2018

- **Research** — Searching Materials for Indoor Electric Power Generation Using Machine Learning

Projects

Video Bento

8-9th Aug 2019

- Developed in a hackathon at "PyTorch Summer Hackathon at Menlo Park"(https://devpost.com/software/video-bento)
- Save viewing time and content search by filtering redundant content and compacting your video search results.
- Developed with 4 people as a team using slack, github, and having a cooperative communication