Tokyo, Japan
sujatasaini.com

Sujata Saini

saini-sujata@ed.tmu.ac.jp
linkedin.com/in/sujatasaini

Education

- **Tokyo Metropolitan University** — Tokyo, Japan
  Doctor of Philosophy in Computer Science — *April 2021-March 2024*
- **Chaudhary Ranbir Singh University** — Jind, India
  Master of Philosophy in Computer Science — *Aug 2015-April 2017*
- **Maharishi Dayanand University** — Rohtak, India
  Masters of Science in Computer Science — *Aug 2013-May 2015*
- **Maharishi Dayanand University** — Rohtak, India
  Bachelors of Science in Computer Science — *Aug 2010-May 2013*

Experience

- **Forth Valley Concierge** — Tokyo, Japan
  Internship — *Jan 2022 - Feb 2022*
- **Microsoft Student Learn** — Tokyo, Japan
  Ambassador/Founder at Tokyo Metropolitan University — *Jan 2022 - Present*
- **Technovation Challenge** — Tokyo, Japan
  Mentor — *Dec 2021 - March 2022*
- **Women Techmakers** — Tokyo, Japan
  Ambassador — *Sep 2021 - Present*
- **Google Developer Student Club** — Tokyo, Japan
  GDSC Lead/Founder at Tokyo Metropolitan University — *Aug 2021 - Aug 2022*
- **S.B.S.S** — Jind, India
  Product Supervisor Intern, Bio-Metric Devices and Applications — *Mar 2016 - Sep 2016*
- **Chaudhary Ranbir Singh University** — Jind, India
  Teaching Assistant, Soft-Computing and Matlab — *Sep 2015 - Feb 2016*

Projects

- **IndusDraw:** Collected handwritten Indus Signs data of multiple users via web application with crowd-sourcing method.
- **M.Phil Dissertation:** Developed image classification model to recognize the Japanese historical characters by using Deep Convolutional Neural Networks with DropBlock regularization method and achieve 97% accuracy of state-of-art results.
- **Sentasis:** Performed Simple, Multi Class, Convolutional Sentiment Analysis using Bi-Directional and Deep Layer RNNs, CNNs in PyTorch.
- **Heartpro:** Performed EDA and compared KNNs, Decision Trees, Logistic Regression, Naive Bayes, Random Forest on Cleveland Database.
- **ActoNET:** Predicted human activities such as Walking, Sitting, Standing etc. using Numpy, Pandas etc. with data from Smartphone sensors.

Skills

- **Programming**: Python, R, MATLAB, C, C++, SQL, HTML, CSS, Javascript
- **Libraries**: Tensorflow, PyTorch, Keras, Caffe, OpenCV, Scikit-Learn, Numpy, SciPy, Matplotlib, Pandas, NLTK, fastai
- **Others**: AWS, Git, Docker, Kubernetes, Anaconda, RStudio, SAAS, Tableau

Publications

- **Sujata Saini, Vishal Verma,** *"Japanese Historical Character Recognition using Deep Convolutional Neural Network (DCNN) with DropBlock Regularization,"* International Journal of Recent Technology and Engineering, Volume-8, Issue-2, July 2019, pp. 3510-3515.
  Link: (http://dx.doi.org/10.35940/ijrte.b2923.078219)
- **Sujata Saini, Hiroki Shibata, Yasufumi Takama** *"Toward Construction of Handwritten Indus Signs Dataset"* The 10th International Symposium on Computational Intelligence and Industrial Applications (ISCIIA2022) Sep.23-Sep.25, 2022, Beijing, China.

Awards and Scholarships

- Japanese Government (Monbukagakusho: MEXT) University Recommendation Scholarship under Flexible Design Scientist Interfaculty Program (FDSIP); April 2021 - March 2024
- AutoML Fall School Scholarship; Nov 2021

Seminars and Workshops

- Participated in the **"Google Solution Challenge 2022"** which mission was to solve one or more of the United Nations 17 Sustainable Development Goals using Google technology.
- Participated in the **"AutoML Fall School 2021"** organized by Leibniz Universität Hannover, University of Freiburg, and Ludwig Maximilian University of Munich from Nov 8th-12th 2021.
- Attended a **"Deep Learning Talk on Kuzushiji Dataset"** by Tarin Clanaut (P.hD., National Institute of Informatics) at Otemachi, Tokyo, Japan.
- Attended the 9th CODH Seminar on **"Computer Vision with Labeled Data"** at NII, Tokyo, Japan.

MOOC Undertaken

- **Coginitive AI Classes** ; IBM
- **Computer Vision NanoDegree** ; Udacity
- **Machine Learning Crash Course with TensorFlow APIs** ; Google
- **MicroMasters Program of Statistics and Data Science** ; MIT
- **Introduction to Digital Humanities** ; Harvard University, edX

Certifications

- Certification of **AWS Machine Learning Foundations 2022;** Udacity

Certification of **Fundamentals of Deep Learning;** NVIDIA

- Certification of **DLI Platform Course for Instructors;** NVIDIA
- Certified Diploma in **Advanced Software Management;** ZAD Institutions

Extra-Curricular Activities

Instructor; *English Language Camp in Iwai* for Japanese Junior High School students, Chiba.

Hobbies

Cultural Dance, Playing Badminton and Yoga, Blogging and Reading Articles

Languages

English (Fluent), Hindi (Native), Japanese (N5), and German (Basic)