# Dhruv Iyer

Sendagi 5-20-5,                                               dhruviyer17@g.ecc.u-tokyo.ac.jp
Bunkyo Ward,                                               +81 080(6862)4959
Tokyo 113-0022

## Education

**The University of Tokyo**                                               Tokyo, Japan
B., Eng. in Mechano-informatics  (Mechanical Engineering with specialization in Information Sciences)
                                               April, 2019 – March, 2023
Grade: 3.6 GPA
Awards and Honors: MEXT Japanese Government Scholarship

**Tokyo University of Foreign Studies**                                               Tokyo, Japan
One Year Intensive Japanese Language Course                    April, 2018 – March, 2019
Awards and Honors: MEXT Japanese Government Scholarship

**Pace Junior Science College**                                               Mumbai, India
High School
Final Grade: 95%
Awards and Honors: Advancement up to National Level of International Chemistry Olympiad

## Work Experience and Extracurricular Activities

**Robert Bosch GmbH, Japan**                                               Tochigi, Japan
Chassis Systems Engineering Intern, Sensors Manufacturing Department    August, 2020 – September, 2020
Main tasks and responsibilities:
- Identified bottlenecks in the sensor production line through cycle time analysis.
- Presented efficiency improvement proposals for key cells in the production line.
- Created a template to be circulated around the factory for technical loss analysis in machines.
- Inspected the regular functioning of robots by analyzing functional data using R.
- Examined SCARA robots regularly for maintenance.

**MEXT Scholars' Association**                                               Tokyo, Japan
Vice Head of Externals                                               September, 2019 – Present
Main tasks and responsibilities:
- Negotiate agreements with partner companies.
- Relay key information relating to life and work in Japan from partner companies to MEXT scholars.
- Organize regular meetings for the planning of career events and information sessions.
- Achieved long term deals with companies providing vital services for international students in Japan.

**Datact Japan**                                               Tokyo, Japan
Data Analyst                                               February, 2020 – May, 2020
Main tasks and responsibilities:
- Performed data analysis using clients' sales data and propose solutions for their marketing strategy.
- Participated in regular study meetings in order to learn modern data analysis methods for improvement of service.

**Softbank**                                               Tokyo, Japan
Regional Revitalization Project Intern                                               March 2021
Main tasks and responsibilities:
- Undertook the case of Higashimatsushima, a small town of about 30000 people in Northeastern Japan, working on a campaign for the promotion of healthy food habits among youngsters of Higashimatsushima and the revitalization of small eatery businesses.
- Mainly handled the financial and accounting aspects of the project
- Received a tentative agreement with PayPay, a subsidiary company of Yahoo, towards the on-site implementation of the project

**Procter & Gamble**                                                                                Tokyo, Japan
Japan Representative at P&G CEO Challenge (Business Competition)        February 2021 – March 2021
- Presented a marketing campaign for the rollout of Oral-B toothbrushes in Japan at the Japan regional round and proceeded to the Asia-Pacific Round.
- Presented a product launch campaign in the Singaporean oral care market at the Asia-Pacific Round.

**Bizjapan**                                                                                        Tokyo, Japan
Project Leader at UT-BASE English                                                        August 2021 – Present
- Started a project called UT-BASE English aimed at informative content in English regarding campus life, academics, internships, etc… in order to aid the international students at the University of Tokyo
- In collaboration with UT-BASE, a student media platform, published articles on their website (https://ut-base.info/article_categories/20 )
- Created strategies for marketing and advertising, debugged the website, arranged meetings and kept tabs on the overall progress of the project.

## Research Experience
**CREST HCI for ML Project, the University of Tokyo**                                Tokyo, Japan
Student Research Intern                                                            March 2021 – Present
Advisor: Prof. Takeo Igarashi
- Working on a research project at the CREST HCI for ML Project.
- The project focuses on crowd-sourcing rewards for Multi-Agent Reinforcement Learning.
- Currently working on developing an interactive MiniGrid environment in order to deploy the cooperative multi-agent system, in addition to preparing a slightly modified version of the Hysteretic Q Learning algorithm for the Multi-Agent Reinforcement Learning.

## Research Interests
- Applications of HCI in everyday life, especially in eldercare
- Intelligent agents in VR and AR systems
- Improving user experience in VR, especially for reducing VR sickness

## Skills
Programming Languages: Python, R, C++, C, C#, Lisp, Javascript (ReactJS) (fluency in HTML and CSS as well)
Software: Unity, Blender, Excel, Solidworks, ROS

Language Skills: English (First Language), Tamil (Mother tongue), Hindi (Fluent), Japanese (Fluent - Native Level), Spanish (Intermediate with university certification)

Other Achievements:
Completion of Global Leadership Program (GLP-GEfIL) by writing a research paper on the Analysis of Legal Documents of the International Criminal Court using Natural Language Processing Technology