Pranjal S Rajput

2.4, Jaagpad 1, 2288AB, Rijswijk
✆ *+31-610123655*
✉ *p.s.rajput@student.tudelft.nl*
🖱 *pranjalsrajput.github.io/*
 pranjalsrajput
 pranjalsrajput

I am currently pursuing a Masters degree at Delft University of Technology, The Netherlands, with a focus on Deep Learning applications in Computer Vision.

Education

2018–present **Delft University of Technology**, *M.Sc.*, *Embedded Systems* (with Masters Annotation in Entrepreneurship).
Research Thesis: Supervisor <u>Prof. Dr. Jan van Gemert:</u> Finding the efficient ways to annotate a large-scale in the wild video dataset of marathon runners for research in Computer Vision

2011–2015 **Maulana Azad National University of Technology, Bhopal, India**, *B.Tech.*, *Electronics & Communication Engineering*.
Major Project: Supervisor <u>Prof. Dr. Jyoti Singhai:</u> A security system is developed consisting of a finger print module, an alcohol detector module and a RFID module.

Academic Projects

2019 **Collection and Preparation of a Novel Dataset of Marathon Runners**.
A novel video dataset of marathon runners captured using hand held smartphone cameras.

2019 **cGANs for Cartoon to Real life images**.
Conversion of cartoonized faces to a real face image using Conditional GANs.

2019 **Localization and Activity Recognition App**.
Three android based apps are developed for localization and activity recognition of a person in a floor of a building. The methods used are KNN, Bayesian filter and Particle filter.

2019 **Stabilization of the Quadruple drone**.
Stabilized a quadrotor aerial vehicle such that it can hover and fly with only limited user control. Also developed an andorid app to control the quadcopter using an android phone.

2019 **Architectural Analysis & Contribution in FLAIR**.
Analyzed the complete architecture of FLAIR, a state-of-the-art Natural Language Processing Python library.

Research Experience

Work Experience

2015-2018 **Senior Software Engineer (Nucleus Software Exports Ltd, India)**.
- **Algorithms Implemented:** Decision Tree Algorithm, Batch Processing Module, Logistic Regression, K-Means clustering
- **Technical Upgradation:** From Struts 1.x and Java 6 to Struts 2 Framework and Java 8
- **Performance Upgrade:** Enhanced and improved the performance of various functionalities of the product like Multiple Linear Regression, Scorecard, Logistic Regression.
- **Security Upgrade:** Enhanced Application security by implementing features like X-frame Options, Cryptographic nonce and database layer.
- **Product Compatibility:** Made Lending Analytics application compatible for Chrome, Mozilla Firefox, and Internet Explorer 11.
- **Database Script:** Creation, Rollback and Cleanup for the entire application

Internships

2014 **Summer Internship at IIT Indore**.
Advised by <u>Dr. Vivek Kanhangad:</u> Face Recognition Using PCA

Teaching Experience

April 2020 - present   **Graduate Teaching Assistant of Computer Vision**.
Main responsibilities: Guiding 2 student projects, grading of the seminar presentations, evaluate the questions submitted by the students.

April 2020 - July 2020   **Graduate Teaching Assistant of Cloud Computing**.
Main responsibilities: Graded the paper summaries submitted by students.

Feb 2020 - April 2020   **Graduate Teaching Assistant of Deep Learning**.
Main responsibilities: Guided 5 deep learning projects, helped students during the lab, evaluated the assignments.

Nov 2019 - Feb 2020   **Graduate Teaching Assistant of Distributed Algorithms**.
Main responsibilities: Helped students during the lab, evaluated the lab assignments and paper summaries that were part of the exam.

Summer Schools

July 2020   **Eastern European Machine Learning Summer School, Krakow Poland**.
The program is focused on latest trends in Deep Learning. Attending guest lectures, theoretical lectures & practical sessions related to Deep learning.

Nov 2019   **ATHENS Network: Advanced Technology Higher Education Network**, *Czech Technical University in Prague*, Grade: A.
Learned various concepts of Game Theory

Extra Curricular Activities

2011-2015   **Vision**, *MANIT*, India.
Was an active member of *Vision*, a technical student club. Was Technical Head in 2014 -15.

2012   **Workshops**, *MANIT*, India.
Conducted various workshops on White Line Tracer Robots, Microcontrollers, & MATLAB for freshmen.

2013   **Roboelevar**, *MANIT*, India.
Event Coordinator of national level Robotics competition "ROBOELEVAR" in TECHNOSEARCH 2013, at MANIT.

Skills

Programming Skills: Python, Java

Python Libraries: Numpy, Scipy, Matplotlib, pandas, scikit-learn, Selenium Webdriver, Beautiful soup

Deep Learning Frameworks: PyTorch

Database: Oracle, MySQL

Web-Related Knowledge: JSP, JQuery, JavaScript, Struts, Spring, HTML, CSS, Servlets

Others: Eclipse, Jenkins, Jasper, SonarQube, JIRA, PyCharm, Android studio, Bash

Honors and Awards

2019   **TRAVEL GRANT**, ATHENS Network: Advanced Technology Higher Education Network

2018   **Pride Of Performance** Award by the Senior Management of Lending Analytics

2017   **L.I.V.E Small Team Award** for the team Lending Analytics of year 2017

2012   **Second Runner-up**, Grid Solver Robot category in Technosearch, MANIT

Languages

English   Business Fluent

Hindi   Mother Tongue or Bilingual Proficiency

Interests

Cricket, Music, Movies