Pranjal S Rajput

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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* (Annotation Entrepreneurship). Research Thesis: Efficient ways to annotate a large scale video dataset for computer vision
Nov 2019	**Czech Technical University in Prague**, *ATHENS Network: Advanced Technology Higher Education Network*. Learned various concepts of Game Theory
2011–2015	**Maulana Azad National University of Technology, Bhopal, India**, *B.Tech.*, *Electronics & Communication Engineering*.

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 classifier, Bayesian filter and Particle filter.
2019	**Stabilization of the Quadruple drone**. Stabilization of a quadruple drone such that it can hover and fly with only limited user control. An android app is also developed to control the drone using smartphone via Bluetooth.
2019	**Architectural Analysis & Contribution in FLAIR**. Analyzed the complete architecture of FLAIR, a state-of-the-art Natural Language Processing Python library.
2015	**Major Project: Enhanced Car Security System**. Advised by Prof. Dr. Jyoti Singhai: A security system is developed consisting of a finger print module, an alcohol detector module and a RFID module.

Research Experience

Teaching Experience

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

Work Experience

2015-2018   **Senior Software Engineer (Nucleus Software Exports Ltd, India)**, *Role: Developer of an analytical product used in banks. Banks can use machine learning models to know more about their customers and make informed decisions before lending loans.*

- **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, Strong Cipher Suite in Jboss server, and database verification layer. The product was certified by *Paladion*.
- **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
- **Webservices:** Using REST API

Internships

2014   **Summer Internship at IIT Indore**.

Advised by Dr. Vivek Kanhangad: Face Recognition using Principle Component Analysis

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, Weblogic Server, Jboss Server, CV-AVR, Arduino, Android studio, Bash

Worked on Microcontrollers: ATMega8L, ATMega16L, AT89S52

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