KUSHPAL YADAV

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Education / Courses

Deep Learning Specialization

Coursera

May 2019 – July 2019

Master of Technology

Indian Institute of Technology Gandhinagar [Computer Science and Engineering]

July 2018 – Present Gujarat, India

Bachelor of Technology

Tezpur University [Computer Science and Engineering]

Aug 2013 – July 2017 Tezpur, Assam, India

Experience

Teaching Assistant

Python course

May 2018 – Dec 2018 IIT Gandhinagar, Gujarat, India

- Assisted head faculty member with classroom instruction material, exams, and record keeping of class size 120.

Internship

Design alumni portal

Jun 2015 – July 2015 Tezpur University, Assam, India

- Developed web-based applications for Tezpur University.
- Created interface for storing the alumni information, an online database system.
- Worked with relational databases such as MySQL.
- Link : TU Alumni Portal

Achievements

- Placed in top 3% in codechef long challenge November 2018.
- Placed in top 36% in "PetFinder.my Adoption Prediction" Kaggle Challenge
- Secured All India Rank (AIR) 1644 in GATE 2018

Skills

C, C++, Python, Keras, Nibabel, Linux
Tensorflow, Pymvpa, Matlab, SQL, Git

Publications

Malicious user identification in the political WhatsApp chat ("under review at CODS-COMAD 2020")

Aug 2019 – Present IIT Gandhinagar, India

- Identified unusual behavior of users in public WhatsApp group.
- Developed a method to classify WhatsApp messages into categories (spam, advertisement, offensive content, and others) based on the message content.

Projects

M.Tech Thesis

Multiclass classification of Alzheimer's disease using Deep CNN on MRI data

Jan 2019 – Present IIT Gandhinagar, India

- Developed a deep convolutional neural network based model to diagnosis Alzheimer's disease and its various stages such as Cognitive normal, Mild cognitive impairment, Alzheimer's disease.
- Data is collected from the Alzheimer's Disease Neuroimaging Initiative (ADNI).
- Achieved prediction accuracy of 95.6% for classifying three categories.

Seating arrangement optimization using PSO

Jan 2019 – Apr 2019 IIT Gandhinagar, India

- Generated an optimization model using particle swarm optimization (PSO) that can maximize the distance of students who belong to the same course.
- Link : Seating Arrangement

Online cloud storage system

- Developed, modified and implemented cloud storage system which can accept multiple client request at a time.
- Server used to maintain a log file for individual users and do not allow any user to read and write other users file.
- Link : Cloud storage system

Microsoft malware classification

- Designed a robust machine learning model that detects the malware in the file.
- Dataset is collected from Microsoft and used gradient boosting technique to predict the malware category.
- Acheived prediction accuracy of 99.12%.

Extracurricular activities

- Winner of the Cricket Compact League (CCL) 2019 organized by IIT Gandhinagar.
- Performed street-play on awareness program conducted on national sanitation and cleanliness Day by National Service Scheme (NSS), India.
- Participated in "Swachh Bharat Abhiyan" event organized by Tezpur University.