

KUSHPAL YADAV

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Education / Courses

Master of Technology

Indian Institute of Technology Gandhinagar [Computer Science and Engineering, CGPA : 7.43]

📅 July-2018 – July-2020 📍 Gandhinagar, Gujarat, India

Bachelor of Technology

Tezpur University [Computer Science and Engineering, CGPA : 7.57]

📅 Aug-2013 – July-2017 📍 Tezpur, Assam, India

Microsoft Certification

Exam 98-381: Introduction to Programming using Python

📅 July-2020 – Aug-2020

Link : Certificate

Experience

Software Developer

K12 Techno Services Pvt. Ltd

📅 Sep-2020 – Present 📍 Bangalore, India

- Currently working on School ERP Software which is multi-branch nursery schools to graded schools and colleges. As a user configurable and dynamic software solutions.
- Successfully implemented video calling feature in virtual counselling web application using WebRTC, Django channels, JavaScript, and TURN server.

Internship

Designed Alumni Portal

📅 Jun 2015 – July 2015 📍 Tezpur University, Assam, India

- Developed web-based applications for Tezpur University. Worked with relational database (MySQL).
- Link : TU Alumni Portal

Achievements

- Successfully implemented machine learning algorithms such as SVM, Linear Regression, Naive Bayes, Decision Tree and Random Forest from scratch using python. Link: GitHub repository
- Placed in top 3% in codechef long challenge November 2018.
- Placed in top 36% in "PetFinder.my Adoption Prediction" Kaggle Challenge
- Secured a percentile of 98.47% in GATE 2018

Skills

C, C++, Python, Django, Linux



WebRTC, JavaScript, HTML, CSS, POSTMAN



Tensorflow, Matlab, SQL, Git, PostgreSQL



Awards

Winner of Spot Award

📅 Apr-2021 📍 K12 Techno Services, India

- Awarded for excellency and continuous improvement.

Projects

M.Tech Thesis

A Novel Approach Towards Early Detection of Alzheimer's Disease Using Deep Learning on Magnetic Resonance Images (Published, Aug 31, BI 21)

📅 Aug-2019-July-2020 📍 IIT Gandhinagar, India

- Developed a 2D convolutional neural network based model to diagnosis Alzheimer's disease and its various stages such as Cognitive normal, Mild cognitive impairment, Alzheimer's disease.
- Achieved prediction accuracy of 99.8% for classifying three categories.

Malicious user identification in the political WhatsApp chat

📅 Aug-2019 – Dec-2019 📍 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. Link: GitHub repository

A Novel Approach to Detect Covid-19 Using Deep Learning on X-ray Images

- Designed a robust machine learning model that detects the Covid-19 without using any other tests.
- Data is collected from hospitals(Ahmedabad) and online sources, with the help of Doctors, the system has been validated.
- The project gained publicity in many news channels as well as papers on the basis of accuracy which was 94.8%.
- Link: Medium, Toi, Businessinsider, India Today, AajTak, News18

Seating arrangement optimization using PSO

- 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

Public Speaking

- With the help of google API, we are using 2 minutes audio recording to find out the speaking quality of kids in the schools.
- Rest API has been developed for login through Facebook, Google and custom.

Extracurricular activities

- Successfully managed the Foundation Programme 2019 hosted by IIT Gandhinagar with respected Professors.
- 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.