Diksha Verma

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Education

USHA MITTAL INSTITUTE OF TECHNOLOGY, SNDT WOMEN'S UNIVERSITY, JUHU, MUMBAI

Bachelor's Degree, Computer Science & Technology (3rd year)   July, 2017-May, 2021

KENDRIYA VIDYALAYA, AIR FORCE STATION, THANE

Higher Secondary school Certificate (H.S.C.)   April, 2015-May, 2016
Overall Percentage: 87.66%

KENDRIYA VIDYALAYA, OFA AMBARNATH

Senior Secondary school Certificate (S.S.C.)   April, 2013-May, 2014
CGPA: 10.0

Experience

RESEARCH & DEVELOPMENT ESTABLISHMENT ENGINEERS, DRDO   **PUNE, MAHARASHTRA**
IMAGE PROCESSING INTERN   DEC, 2019 - JAN, 2020

- Worked under Dr Alok Mukherjee Sc G, on the application of image processing techniques in robotics.
  Project assigned: A computer vision application for an autonomous bot to identify the target site and generate notifications.

G SYSTEMS   **NOIDA, UTTAR PARADESH**
MACHINE LEARNING INTERN   AUG, 2019 - SEP, 2019

- Undertaken research to develop a real-time predictive maintenance system for military vehicles and aircraft.
- Designed and developed a model to summarize News Articles using the TextRank Algorithm.
- Designed and planned layout of Python course for beginners.

CERELABS   **BHANDUP, MUMBAI**
MACHINE LEARNING INTERN   JUNE, 2019 - JULY, 2019

- Wrote various python scripts to perform text data preprocessing using NLP.
- Trained a Machine learning model to classify Ophthalmology reports based on eye disorder.
- Conducted research on table extraction using genetic algorithm and CGAN.

Achievements

- Intercollegiate Project Exhibition Competition, Computer Society of India, UMIT   - First Position
- Hackit'19, 24hr Hackathon – KJ Somaiya College of Engineering   - Second Runner's Up
- Unique Planner Organized by E-cell, UMIT   -First Runner's Up
- Semicode'19, Coding Competition organized by ACM Mumbai Chapter   - Finalist

Hackathon Projects

1. EYE BLINK REMINDER APP   - FEB, 2019
  A cross-platform application built using electronJs and python to generate desktop notifications to remind users to blink, with feature that includes the famous "20-20-20 rule" reminder. The application also provides a feature to completely turn off notifications, so as to not disturb or distract the user.

2. MONEY MANAGEMENT APP   - MARCH,2019

An android and web-based Money Management application for individuals and businesses to keep track of their income, savings, and spending.

3. FOOD TRACKER APP   - APRIL, 2019

A web application for classifying the food into several different categories also estimating the approximate calorie intake throughout the day based upon what food the user is consuming. Providing health tips and recommendations through notifications on the mobile phone to assist users stay on track of their health plans.

Projects

1. AUTOMATIC IMAGE CAPTION GENERATION WITH KERAS   --PRESENT
   developing model to generate automatic image captions and hashtags using LSTM and RNN

2. COLLEGE EVENT MANAGEMENT APPLICATION   — NOV,2019
   An application build in Java which lists all upcoming events in nearby colleges.

3. HELMET DETECTION USING YOLO   --AUGUST, 2019
   Implemented dark flow using pre-trained model and weights

4. M NIST DIGIT CLASSIFICATION USING PYTORCH   — MAY, 2019
   Learned to implement convolution neural network in pytorch

5. K-M EANS CLUSTERING IN STOCK PRICE ANALYSIS   — FEB, 2019
   Implemented clustering using Keras on randomly generated points using numpy.

6. M -ELIXIR: BEAM EQUILIBRIUM SOLUTION USING PYTHON   — MAR, 2018
   An application to solve beam equilibrium problems in mechanics build in python using Tkinter.

Skills

Interests: Computer Vision, Deep Learning, Machine Learning, Robotics and Image Processing

Machine-learning skills: Numpy, Pandas, Keras, Sckit-learn, Tensorflow and Natural language Processing

Skills: C, C++, Python, OpenCV, PyQ t5, tKinter, Django, JavaScript, Android

Extra-Curricular

• Core Member - Developer Student's Club powered by Google

• Organized and Lectured workshop on Introduction to Java programming, Developer students club UMIT.

• Sponsorship head - Tech Tornado 2019, SNDT ACM STUDENTS' CHAPTER.

• Volunteering NSS in collaboration with Angel Xpress to help class 11 students with basics of Computer science - every Sunday.

• Representative - SNDT ACM STUDENTS' CHAPTER