Shobhit Malarya

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EDUCATIONAL QUALIFICATIONS

Year	Degree	University / Board	CGPA / %
2016-current	B.Tech in Computer Science	Indian Institute of Information Technology , SriCity	7.0
2015	Class XII - TSBIE	Sri Chaitanya , Hyderabad	91.8
2013	Class X – CBSE	Ram Shanti Vidhya Mandir , Pandhurna	7.4

SKILLS

WEB	Front-End :	HTML, CSS (Bootstrap4, Materialize), JavaScript, XML
	Back-End :	Django, PHP
	Database :	MySQL, SQL, Firebase
Android app development	-	Android Studio and Firebase
Languages/Tools	-	Python, C, C++, JavaScript, Java, Shell scripting
	-	Adobe illustrator, Matlab, GitHub
Other	Raspberry Pi, Arduino and respective modules, Web scraping and ML algorithms	

PROJECTS

AUTO OFFERS   2018
- An android application which shows offers related to nearby stores (using Wi-Fi) and based on user's purchase history.
- Technology Stack - Java(Android Studio) and Firebase

ONLINE RENTAL STORE   2018
- A Django based fully responsive website for renting and selling of products.
- Technology Stack - MySQL, Django, Bootstrap4

DROWSY DRIVER DETECTION SYSTEM   2018
- A Matlab based program to detected a drowsy person in real time using a camera (e.g. - webcam).
- Info - Drowsiness detection is based on Image processing (SVM classifier trained using hundreds of sample images)

WAREHOUSE SAFETY SYSTEM   2018
- An IOT project which detects Fire, Smoke/gas leak and Intrusion Using respective sensors and a Pi-cam.
- Info - Arduino for the Fire and gas leak detection, raspberry pi for intrusion detection and for sending data to a Firebase database, an android app for notifications and data logs and photo feed of the situation.

PLANT CARING SYSTEM   2017
- An IOT project for automatic plant watering based on soil and air humidity.
- Info - Arduino and raspberry pi for data collection and sending, Django for the user data log's website.

TEXT DETECT AND SEND   2017
- A Python and Arduino based system which extracts text from an image and can send it to another laptop using RF transmitter and receiver.
- Info - Anything can be done from the extracted data; the extraction is done using python OCR.

HINDI ANALYSER   2018
- A Lucene based information retrieval system which works with queries and documents in Hindi.
- Info - A system which retrieves relevant documents and their jaccard similarities based on the query (all in Hindi).

Other works
- Prison Database Management   MySQL and materialize
- An OS algorithms simulator   Java
- To-do android app   a to-do list app ; java
- Lang Quiz   python based quiz program
- ML-algo   A pack of machine learning algorithms written in C
- 2D to 3D human poses (Currently working)   A computer vision project to get a 3D model of the human pose from a 2D image.

COURSEWORK INFORMATION

Programming and data structure, Theory of Computation, Information Retrieval, Probability, Machine Learning, Operating Systems, Computers and Networking, Embedded and Intelligent System, Communication Systems , Cellular Networks, Distributed Computing

OTHER

SKILLS   LINUX, BASH, LATEX,GIT CONTROL , KIVY , MIPS(ASSEMBLY LANGUAGE), KOTLIN
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