sachinsngh165@gmail.com | +91-8377070737

EDUCATION

TECHNOLOGY

University of Delhi

B.E. IN INFORMATION TECHNOLOGY

Expected Graduation: May 2019 Percentage: 70.2 (Cum. GPA: 7.77)

RAJKIYA PRATIBHA VIDYALAYA

NEW DELHI, INDIA

AISSCE: 88.80% (2015) AISSE: 9.0 CGPA (2013)

LINKS

Github://sachinsngh165 LinkedIn://sachinsngh165

SKILLS

PROGRAMMING

- C C++ Python MYSQL
- Markup Languages:
- HTML 5 CSS

Familiar:

- PHP Javascript Wordpress
- AWS Google Cloud ATFX

FRAMEWORKS

• Keras • Django • Bootstrap

SCIENTIFIC LIBRARIES

- OpenCV Numpy Matplotlib
- Scikit-Learn Pandas PyQtGraph

TOOLS

- Sublime Git Jupyter Notebook
- WebRTC Websockets Postman
- Cumulocity IoT Plateform

OS

• Mac OSX • Linux • Windows

LANGUAGES

• English • Punjabi • Hindi

RELEVANT COURSES

- Data Structures Algorithms RDBMS
- Operating Systems Object Oriented Technology • Information Theory and Coding • Computer Networks • Theory of Automata • Computer Graphics • Software Engineering • Software Testing

EXPERIENCE

NETAJI SUBHAS INSTITUTE OF GOOGLE SUMMER OF CODE (GSOC) | SOFTWARE DEVELOPER May 2018 - Aug 2018

- Enhancements to P2PSP simulator for the real-time streaming of multimedia content over the Internet.
- Redesigned the Inter Process Communication mechanism by replacing UNIX sockets with Internet sockets.
- **VIKAS** 150% more Optimized plotting method using PyQtGraph.
 - Tech: Python, IPC mechanism, Sockets, PyQtGraph

ENRICHAI | SOFTWARE ENGINEER INTERN

DEC 2017

- Designed and implemented simulation for transformer monitoring system.
- Designed rating algorithm to rate the transformers and added functionality to Fleet Management System.
- Tech: IoT, AWS, Python, Cumulocity Platform

SINCGRID | SOFTWARE ENGINEER INTERN

DEC 2018 - JAN 2019

- Designed and implemented IoT Smart Switch
- Built an Analyser, which draw insights from user's data
- Deployed the same on AWS server
- Tech: IoT, AWS, Python, NodeJS, MongoDB

PROJECTS

TALK

- Developed a real-time peer to peer video chat application using WebRTC.
- Signalling were used to exchange IP addresses, codecs, file formats and other useful meta-data to initiate and maintain a call.
- Websockets were used to made signalling.
- Tech: WebRTC, Websockets, Javascript, Python

NEURAL IMAGE CAPTIONING

- Worked on image captioning based on neural network.
- The model first extracts the features by convolution neural network and then generates caption by "Recurrent neural network.
- Normal Sampling and Beam Search were used to predict the captions.
- Tech: Python, Keras, Convolution Neural Network, Recurrent Neural Network

ANIMAL CLASSIFICATION USING TRANSFER LEARNING

- Worked on classification of animals using Convolutional neural network.
- Pre-trained VGG-16 model was used.
- Accuracy of about 97% was achieved in just 6 epochs with a dataset of 10000 images.
- Tech: Python, Keras, Convolution Neural Network, OpenCV

AUTOMATED LICENCE PLATE RECOGNITION

- Developed a system that can automatically extract licence plate from car and recognize it's plate number.
- Used OpenCV to extract licence plate and machine learning algorithm, optical character recognition (OCR) to recognize plate number.
- Tech: Python, OpenCV, Machine Learning, OCR