

Saksham Gupta

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY (DCE)

B.TECH IN

SOFTWARE

ENGINEERING

2014-2018(expected)

Currently In :- 3rd year

CGPA :- 8.53

Aggregate: 78%(5 Sems)

S.R. D.A.V.P. Sc. Dayanada

XII (HIGH-SCHOOL)

2012-2014 |Delhi, India

SCORE: 95%

Delhi Pu. Sc. Haridwar

X | 2000-2012

Haridwar,India

CGPA: 10/10

LINKS

Github://sakshamgupta006

LinkedIn://guptasaksham

Quora:// Saksham-Gupta-30

COURSEWORK

- Operating Systems
- Data Base Management
- Algorithm Design
- Theory of Computation

SKILLS

PROGRAMMING

Programming and Scripting:

- C/C++ • C# • Python
- Shell • Matlab • Java
- JavaScript •HTML 5

Databases: MYSQL

Others: •Caffe •Tensorflow

•Theano•Qt •Visual Studio

•Android Studio •OpenCV

•Octave •Linux •Windows

HOBBIES

Languages: English •Hindi

•Punjabi •Urdu

Music: Piano Quizzing: General

Knowledge •India •Mythology

•Computer Science

Sports: Badminton •Table-Tennis

•Basketball •Football •Cricket

EXPERIENCE

Beehive Systems

Research Intern | Computer Vision and Computer Graphics | Aug 2016 – Present

- Developed a robust system to obtain the camera pose using ARuco.
- Developing a module to Augment graphics in non-studio environment.

Staqu Technologies

Research Intern | Computer Vision and Machine Learning | June 2016 – July 2016

- Developed a system that sorted images on the basis of color using machine learning in fashion Tech.
- Developed an algorithm to match fingerprints extracted from camera images to sensor

Unmanned Aerial Systems Team, Delhi Technological University(UAS-DTU)

Developer | Autopilot Systems | Nov 2014 – Dec 2015

- Joint collaboration with Lockheed Martin and Indian Aerospace for commercialization of UAV's in India
- Successfully developed autonomous obstacle dodging algorithms for both static and dynamic obstacles
- Developed team's new website { www.uasdtu.com}
- Developed indigenous Ground Control Station for autonomous flight planning of UAV

Inventorykart (Bootstrap Startup)

Software Developer | June 2015 – Aug 2015

- Developed a software to manage inventory of the user and link that inventory to the sites database

KEY PROJECTS

SenseAgri

Machine Learning , Python

Developed a smart Indian agriculture based website which predicted the price of different commodities considering various parameters. Achieved around 80% accuracy.

Aadhaar Card KYC API

Computer Vision, Machine Learning

Developed a system that provides remote KYC eliminating fingerprint sensor instead using ordinary smart phone cameras.

Multi-UAV for Mission Planner

C# , Port Interfacing

Developed a module for open source software Mission Planner which enables the software to control multiple UAV's with a single Ground Control Station.

Interoperability

JavaScript Implementation

Designed a module that remotely logs on to a server and download/upload the relevant information to it. It also displayed the same data on Google Earth.

Antenna Tracking System

Arduino Uno, Serial Communication

Developed a system that tracked the UAV autonomously, eliminating the need of pointing the communication module manually. Used on board GPS to get UAV's location and Uno to control the system.

Intrusion Detector

Raspberry Pi 2 , Python

Developed a system that secured homes by detecting any motion in the home. It simultaneously mailed and telegrammed the intruders' pictures and video, appealing the user to take some action.

CURRENT ENGAGEMENTS

- Research on **Augmented Reality** under **Subhashis Banerjee(IIT-Delhi)** and **Dr.Chetan Arora(IIIT-Delhi)**.
- Research on **Image generation using Generative Adversarial Network** under **Dr. O.P. Verma(D.T.U)**
- Research Paper on **Reactive/Adaptive Path Planning** in an uncertain environment using UAV's.
- Research on **Text Summarization** using Machine Learning under **Dr. Akshi Kumar(D.T.U)**.
- Research Paper on Efficient **Fingerprint Extraction** and Matching using Computer Vision and ML.

OTHER ACHIEVEMENTS

2016 - Selected by **Google** for Summer Internship 2017 , Mountain View | until Interview Round

2016 - **3rd worldwide** in **Digital India Hackathon** by **Very Large Databases Conference** | **Best Presentation**

2016 - **ACM ICPC-2017** Regionals at IIT Kharagpur | Participation

2011 - **Won Discover India with Anupam Kher** |Awarded 5 Lakh Rupees | Show aired on National Television

2014 - **INSPIRE Scholarship** for meritorious performance in class XII by **HRD Ministry, GOI**

2014 - **Top 0.1% of 10 lakh** students to receive **Merit Certificate** at National Level in Maths in class XII

2016 - **In Top 50 teams of Hackerearth IOT hackathon** at SAP Labs.

2012 - **CBSE Heritage India Quiz** | **Second** in North Zone

2015 - **Special Mention** in **DelTech Model United Nation**