

Akanksha Singh

Hand-on experience on MVC framework and Mysql along with data analytics and one year of research internship in the area of image processing and information security. I am passionate to learn new technology and to excel innovative technology application. Seeking a challenging position which will enable me to continuously learn, create, innovative and simultaneously contribute to the organisation.

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WORK EXPERIENCE

Project Assistant II

CSIR-Central Scientific Instruments Organisation

Chandigarh

09/2018-Present

- develop, maintain, test and enhance web application project
- develop database schema and documents, analyse data and develop reports

Assistant Professor

Kishan Institute of Engineering & Technology

Meerut

02/2015-07/2016

- Teaching and evaluating undergraduate students
- Preparation of lectures and assignments

EDUCATION

MTECH Computer Science

Dr. APJ Abdul Kalam University Lucknow

CGPA 8.77

2018

BTECH Computer Science

Uttar Pradesh Technical University Lucknow

Percentage 68.7%

2014

Intermediate

Central Board of Secondary Education

Percentage 73.4%

2010

Matriculation

Central Board of Secondary Education

Percentage 78.2%

2008

INTERNSHIP

CSIR- Central Scientific Instruments Organisation

Chandigarh

09/2017 – 08/2018

- Worked on Information Security

HP Education Services

Noida

06/2013 – 07/2013

- Completed training in Network Management and Security

ACHIEVEMENTS

MHRD Gate Fellowship (08/2016 – 07/2018)

Qualified Gate Exam 2016, 2017

INTERESTS

- Playing Chess, Badminton & volleyball
- Travelling
- Listening to music

SKILLS

Software Languages: C, Html, CSS, Java, JS, PHP, Mysql

Software Packages: MS Office, Matlab, Visual Studio

Operating Systems: Windows, Linux

PROJECTS

Publication of Directory of Scientific Instruments and Component Manufactured in India

09/2018 – Present

- Technology - Front End PHP & Laravel, Back end MySQL
- The project provides complete solutions for vendors as well as customers through a single gateway using the internet.
- It enables vendors to search online instruments to browse through the description, keywords etc. and read them online and for complete information.

A Highly Secured Optimized Steganographic Method using Pixel Value Differencing and Cryptography

07/2017 – 07/2018

- Technology - Matlab
- Developed a new algorithm which resulted in 25% more embedding capacity and higher visual quality than existing methods
- The method is highly secured and robust

Data Hiding in digital images

08/2013 – 05/2014

- Technology - C#, Dot Net Framework

PUBLICATIONS

Journal

A Secure and High-Capacity Data-Hiding Method Using Compression, Encryption and Optimized Pixel Value Differencing (SCI Impact Factor - 4.098)

Awdhesh K. Shukla, Akanksha Singh, Balvinder Singh and Amod Kumar
IEEE Access 6(2018):51130-51139

03/09/2018

Conference Proceeding

An Overview of Pixel Value Differencing Based Data Hiding Techniques

Akanksha Singh, Mukesh Rawat, Awdhesh K. Shukla, Amod Kumar and Balvinder Singh
IC3, IEEE(2018)

12/11/2018

CONFERENCES

Eleventh International Conference on Contemporary Computing

08/2018

Jaypee Institute of Information Technology & University of Florida IEEE

Presented a paper on "An Overview of Pixel Value Differencing Based Data Hiding Techniques"

6th National Conference on Nanoscience and Instrumentation Technology

03/2018

National Institute of Technology, Kurukshetra

Presented a paper on "An Assessment of PVD based image steganographic methods"

