

Ashwini Kumar Mathur

CONTACT INFORMATION

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OBJECTIVE

To build a career that offer challenge and growth with opportunities to enrich my knowledge and skills while contributing my best to the organization I work for.

EDUCATION

- **Master of Technology (Computer Science and Engineering)**
July 2016 with Specialization in **Computer Science Engineering** (Department of Computer Science & Engineering) from National Institute of Technology, jalandhar with **7.0 CGPA out of 10 %**.
- **Bachelor of Technology (Computer Engineering)**
Sep 2009 - July 2013 with Specialization in Computer Engineering from JSS Academy of Technical Education (Uttar Pradesh Technical University, Noida) with **66.7%**.
- **XII**
May 2008 from Kendriya Vidyalaya I.I.T. kanpur (C.B.S.E) with **70.00%**.
- **X**
May 2006 from Kendriya Vidyalaya I.I.T. kanpur (C.B.S.E) with **75.00%**.

RESEARCH INTERESTS

Computer Vision , Image Processing , Cloud Security.

ACADEMIC EXPERIENCE

July 2015-May 2016 as a Research Assistant in Department of Computer Science and Engineering at Central University of Rajasthan, Ajmer, India Under Assistant professor Harish Sharma.

- **Title:** Motion Compensation using Block Matching Algorithm
Abstract: The main aim of this project is to design motion compensation technique using Block Matching Algorithm to achieve efficient video compression.

B.TECH PROJECTS

- **Title:** Computer Science Department Portal (Major Project)
Abstract: It is a user-friendly application, design to allow any department of a college to manage the information related to its members, resources and events more efficiently by providing Department's Documentation and Management. This application speeds up the complete process thereby saving time and energy of manpower.
Technology: C#.Net with SQL Server Express Edition.
- **Title:** Student Marks Analysis System
Abstract: The purpose of the project is to create a computerized environment in any education firm due to which easy and fast access to the database of student can be done.
Technology: C++.

MTECH THESIS TOPIC

Abstract: We describe a Bird detection technique that uses the Combine feature of Global shape descriptors and local shape descriptors, instead of using commonly used part based representation. With that we also analyses the visual bag of feature technique use for classifying the classes of Bird Images. This approach in considerably achieves a significant performance improvement on an extensive data set CUB-2000-2011. This method is valuable for detection of texture objects that are viewed against background clutter. This methodology shows how high frequency gradients can be better deal with interfering texture of shape within the bird-like objects which is major problem

in detection of bird like objects. Furthermore the classification accuracy analysis through support vector machine, naive classifier and decision tree methods with comparative analysis of results.

SKILLS SUMMARY

Operating Systems Familiarity: Windows XP/7/8.1/10, Linux

Programming Languages: C, C++, python, jupyter notebook

Recent Course Completion: CS231n (Deep learning), Convolution Neural Network

Tools and Packages: Latex, Open Office, MS Office, Tensorflow with keras

Virtualization Tools: Oracle VM Virtual Box, VMWare

TRAINING AND WORKSHOP

- **MOU of NIT Jalandhar with I.I.T mandi :** Collaboration of research work (Major Areas- Computer vision, Image Processing and machine learning).
- **INTEL HPC Code Modernization: Workshop series Organize by INTEL Central University Of Rajasthan, Ajmer.**
- **Learning Tensorflow (Case Study Tried Convolution neural network on MNIST dataset (handwritten digits recognition) .**
- **Machine Learning: Participated in 4 Days workshop organized by Central University Of Rajasthan.**
- **Virtual Tech Days: Participated in 3 Days workshop organized by Microsoft(High Performance Computing) at Central University of Rajasthan.**

ACHIEVEMENTS AND EXTRA CURRICULAR ACTIVITIES

- Qualified GATE 2016 with 382 score respectively.
- Won “Best cost strategy” prize on Entrepreneur day held by Central University of Rajasthan.
- Elected member of Student Council at Central University of Rajasthan in 2015-16.

REFEREES

- **Name:** Mr. Deepak Kumar Gupta

Designation: Associate Professor in Department of Computer Science and Engineering, National Institute Of Technology, Jalandhar, India

Research Interests : Distributed systems, Wireless Sensor Networks, Security aspects of distributed systems

PERSONAL DETAILS

Father's Name: Mr. Ram Sevak Mathur

Date of Birth: July 19, 1991

Gender & Status: Male & Single

Nationality: Indian

Languages: English and Hindi

I vouch for the authenticity of the above-mentioned facts.

Ashwini Mathur