

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)**
June 2016 - May 2018 with Specialization in **Computer Science Engineering** (Department of Computer Science & Engineering) from National Institute of Technology, jalandhar with **7.0 CGPA out of 10**
- **Master of Technology (Computer Science and Engineering)**
June 2014 - May 2016 with Specialization in **Computer Science Engineering** (Department of Computer Science & Engineering) from Central University of Rajasthan, Ajmer with **4.88 CGPA out of 7**
- **Bachelor of Technology (Computer Science and 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

Cloud Computing, Virtualization and Data science.

ACADEMIC EXPERIENCE

June 2018 - 2021 [present] - Assistant Professor, at [F.E.T] Faculty of Engineering and Technology, Jain - Deemed to be university, Bangalore, Karnataka - 560062, India.

June 2016 -May 2018 as a Teaching Assistant [Data-structure and Cryptography lab for B-tech students] in Department of Computer Science and Engineering at National Institute of Technology , Punjab, India Under Assistant professor Deepak Gupta.

July 2014-May 2016 as a Teaching Assistant [C programming Lab for M.sc students [Physics and Computer Science Department]] in Department of Computer Science and Engineering at Central University of Rajasthan, Ajmer, India Under Assistant professor Harish Sharma.

COURSES HANDLED Academic Year 2018, 2019, 2020, 2021:

- **Principles of Operating system [With Lab] - At Present**
- **Linux Administration [with lab on Debian based Linux] -At Present**

- R Programming Language [With Lab on R Studio / Jupyter Notebook]
- Principle of Virtualization [With Hands on Experience lab on VMware Vsphere softwares]
- Enterprise Network Engineering [With Lab on Cisco packet tracer 6.0]
- Data-structures Using C [With lab on code blocks]
- Cloud Technology
- C Programming Lab on code blocks
- Computer Organization and Architecture

SKILLS SUMMARY

Operating Systems Familiarity: Windows , Linux [Debian Distribution]

Programming Languages: C, python, Basic shell scripting

Recent Course Completion:

Tools and services : Latex, Cisco packet tracer and AWS Cloud Platform services

Virtualization Tools: Oracle VM Virtual Box, VMWare Vsphere suite

MTECH THESIS TOPIC

- **Title:** Bird Image Classification Algorithm
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.
- **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++.

TRAINING AND
WORKSHOP

- **Guest Lecture in Department of I.T., CVR College of Engineering, Hyderabad [An UGC Autonomous institute, accredited by NBA, AICTE] :** Introduction to Cloud Computing [Date: 7 January, 2021].
- **Deep Learning.AI certification August 2020 :** Introduction to Tensor Flow for Artificial Intelligence, Machine Learning, and Deep Learning [Credential ID: 447FQVXRF8JB].
- **Amazon Web Services specialization certification - July 2020 :** AWS Fundamentals Amazon Web Services [Credentials : 6ZRJCL2EKYUU].
- **The Linux Foundation specialization certification - August 2020:** Open Source Software Development, Linux and Git [Credential ID: Y3NKUG3QXFWW].
- **INTEL HPC Code Modernization:** Workshop series Organize by INTEL Central University Of Rajasthan, Ajmer.
- **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.

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