

PHD RESEARCH SCHOLAR · COMPUTER VISION

Computer Vision and Biometrics Lab, IIIT Allahabad, Prayagrap, U.P., India

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"Looking for career opportunities in Al/Vision/Text"

Education

Tripura Institute of Technology

DIPLOMA IN COMPUTER SCIENCE AND TECHNOLOGY

• **CGPA**: 7.7/10

NERIST(North Eastern Regional Institute of Science & Technology)

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

• CGPA: 3.35/5

Indian Institute of Information Technology Allahabad (IIIT Allahabad)

MTech - PhD (Integrated)

• CGPA: 8.21/10

Agartala, Tripura, India

Jun. 2007 - May. 2010

Nirjuli, Arunachal Pradesh, India

Jun. 2010 - Jun. 2013

Prayagrag, U.P., India

Aug. 2016 - Present

Skills_

Programming Python, C/C++, LaTeX

Web Flask, SQL, PHP, HTML5, CSS3, Javascript

Languages English, Hindi, Assamese **ML/DL Frameworks** PvTorch, TensorFlow

Experience

Computer Vision & Biometrics Lab, IIIT Allahabad

Prayagrag, U.P., India

Jan. 2018 - Present

RESEARCH SCHOLAR

- Worked on Object Detection, GANs, Transformers, Vision-Text (Scene Graph Generation, Scene Understanding, Image Captioning)
- Worked on Efficient Transformers for reducing time and space complexity
- Worked on Large Scale Multi-Metric Learning for face verification
- Mentored M.Tech. Students and B.Tech. Interns

Spyne AI Gurgoan, India

• Implemented realistic shadow generation for general objects (e-commerce)

• Created shadow datasets from 3D models (Blender/OpenGL)

Department of IT, IIIT Allahabad

COMPUTER VISION ENGINEER (INTERN)

TEACHING ASSISTANT

Prayagraj, U.P., India

March. 2022 - June - 2022

Sep. 2016 - Aug. 2022

- Conducted tutorials and practical labs on the following under/post-graduate subjects:
 - 1. Deep Learning
 - 2. Visual Recognition
 - 3. Distributed Computing
 - 4. Computer Architecture and Organization
 - 5. Data Compression
 - 6. Image & Video Processing
 - 7. Computer Graphics

Department of CSE, NIT Silchar

TECHNICAL ASSISTANT

Silchar, Assam, India

Sep. 2015 - Aug. 2016

- In-Charge of organizing and teaching in the labs on the following undergraduate subjects:
 - 1. Operating Systems
 - 2. Computer Networks
 - 3. Data Structures
 - 4. Programming in C

APRIL 7, 2023 ALBERT MUNDU · RÉSUMÉ 1

Department of ECE, NIT Silchar

Silchar, Assam, India

PROJECT ENGINEER Jun. 2014 - Sep. 2015

• Worked on the project titled "Development of Speech-based Multi-level Person Authentication System" supervised by Dr. Rabul Hussain, Professor, Department of ECE, NIT Silchar in collaboration with IIT Guwahati and NEHU Meghalaya and funded by DeitY, Government of India

Electronics & Radar Development Establishment (LRDE), DRDO

Bengaluru, India

Jun. 2012 - August. 2012

• Designed and implemented "Radar Target Simulator"

Project

Online QR-Based Attendance System for Events

IIIT Allahahad

IIIT ALLAHABAD

Aug. 2022

- QR-Based attendance system to keep track of attendance history/entries
- The system can be loaded in smartphones for ease of operating the webapp
- Implemented using PHP, MySQL, Apache2 Server, HTML5, CSS3, Javascript

Customized Bulk Mailing Tool

IIIT Allahabad

IIIT Allahabad

2018

- · Designed this tool for automated bulk mailing with custom email content for each recipient
- Designed and developed with Flask, HTML5, Python, Jinja

Multi-Metric Learning for Face Verification in the Unconstrained Environment

IIIT Allahabad

2017

MTECH SUMMER PROJECT, IIIT ALLAHABAD

• Designed and implemented this verification system using PyTorch

Cluster Middleware - Load Balancer

IIIT Allahabad

Course Project, Distributed Systems, IIIT Allahabad

2017

• Designed and developed the Load Balancer using PHP, Apache2 Server

Mechanism for Wormhole Detection in Mobile Ad-hoc Network (MANET)

NERIST, India

Undergraduate Project, NERIST, Arunachal Pradesh, India

2013

• Designed the mechanism for detecting wormhole using NS2 Simulator (C++)

Institute Website for NERIST

NERIST, India

TEAM PROJECT, NERIST, ARUNACHAL PRADESH, INDIA

2012

- Designed, implemented and deployed the institute website, which was up for five years (2012 -2016).
- Team Lead (Design & Development)

Network Security using Extended RSA Cryptosystem

TIT Agartala, India

DIPLOMA PROJECT, TRIPURA INSTITUTE OF TECHNOLOGY, AGARTALA, INDIA

May. 2010

• Designed and implemented "Extended RSA Cryptosystem" in C/C++ as a final Academic Project.

Extracurricular Activity

International Conference on Computer Vision & Machine Intelligence (CVMI-2022)

IIIT Allahabad

PAPER REVIEWER & CORE MEMBER

Aug. 2022

- Conducted Technical Paper Sessions
- Reviewed technical papers
- Designed banners and other miscellaneous for the conference

IEEE SPS Project on Advances in Biometric Signal Processing Techniques

IIIT Allahabad

CORE MEMBER

Oct. 2021

· Designed, developed and maintained event website as well as designed banners for the event

5th IAPR International Conference on Computer Vision & Image Processing (CVIP-2020)

IIIT Allahahad

PAPER REVIEWER & CORE MEMBER

Dec. 2020

Conducted Technical Paper Sessions

- Reviewed technical papers
- · Coordinated the remote operations of the event
- Designed and maintained the conference website

3rd IEEE Conference on Information & Communication Technology (CICT-2019)

IIIT Allahabad

Dec. 2019

Paper Reviewer & Core Member

- Conducted Technical Paper Sessions
- Reviewed technical papers
- Designed banners for the conference

ADASIVA2019 - Second National Workshop & Summer School

IIIT Allahabad

Jun. 2019

- Conducted hands-on session on "Python & Getting Started with Deep Learning"
- Conducted hands-on session on "Object Detection using PyTorch"
- Designed, developed and maintained event website as well as designed banners for the event

ADASIVA2018 - Two Week National Workshop & Summer School

IIIT Allahabad

Jul. 2018

- Conducted hands-on session on "Python & Getting Started with Deep Learning"
- Designed, developed and maintained event website as well as designed banners for the event

Honors & Awards

DOMESTIC

2016 Awarded, GATE Fellowship for M.Tech.-PhD. by MHRD, Govt. of India

India

Publication

CONFERENCE

Vishal Kumar*, Albert Mundu*, Satish Kumar Singh, "Scene Graph Generation with Geometric Context", 6th IAPR International Conference on Computer Vision & Image Processing, 2021

IIT Ropar, India