

Akshay Nayak

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EDUCATION

National Institute of Technology, Warangal (NITW), TS, India

Bachelor of Technology in Computer Science and Engineering

CGPA: 6.92 / 10.00

Jul. 2017 – May. 2021

Prince Academy, Sikar, Rajasthan, India

All India Senior School Certificate Examination (AISSCE)

Percentage Scored:- 90.6%

Jul. 2015 – Jun. 2017

St. Marys's Sr. Sec. School, Sikar, Rajasthan, India

Council for the Indian School Certificate Examinations (CISCE)

Percentage Scored:- 92.5%

Jul. 2005 – Jun. 2015

PUBLICATIONS

- Dr. M. Srinivas, Akshay Nayak, and Abhishek Bhatt. 2019. **Forged File Detection and Steganographic content Identification (FFDASCI) using Deep Learning Techniques**. In the workshop proceedings of the CEUR working notes (CEUR-WS). Collocated with CLEF 2019. Vol 2380. September 9-12, 2019. Lugano, Switzerland.
- Dr. M Srinivas, S. Saurav, Akshay Nayak, and Murkeshan A P. **"Multi Features Based Facial Expression Recognition"**. Accepted in Machine Learning Algorithms and Applications book chapter, Wiley Press and SCOPUS indexing, 2020.

WORK EXPERIENCE

SETU, Bengaluru, India

Software development engineer Internship in Automation & QA

May. 2019 – Jul. 2019

- Developed an OAuth 2.0 protocol.
- Developed an authentication and authorization system for SETU collect.
- Prepared and submitted reports and other documentation to assist development team members.

National Institute of Technology, Warangal, Warangal, India

Undergraduate Teaching Assistant

July. 2019 – Aug. 2020

- **Guide : Dr. M. Srinivas**, Assistant Professor, Department of Computer Science and Engineering, NIT Warangal.
- Worked on finding an optimal method of detecting COVID-19 infected person using deep learning techniques.
- Worked on developing an efficient way for detecting modified and forged files and also worked on identifying steganographic content identification.

Skylark Labs, San Francisco, USA

Data Scientist Intern

Aug. 2018 – Apr. 2020

- **Mentor : Amarjot Singh**, Research Scientist, Stanford University, USA.
- Custom artificial intelligence solutions for physical security based on Biometric Recognition and worked in the data modelling team.
- Worked on Disguised person identification by analyzing the facial landmarks and using pose estimation.

Microsoft Academia Accelerator, Hyderabad, India

Codefundo++ 2018 Institute Winner

Oct. 2018 – Feb. 2019

- **Mentor : Sudheesh Singanamalla**, Ph.D. student, University of Washington, Seattle.
- I have worked on the web application designed for natural disaster management and provides an optimal way of communication when the whole network is shattered.
- Worked on implementation of the distributed LTE (dLTE) network with the help of raspberry-pi-3.

Computational Intelligence lab, Indian Institute of Science(IISc), Bengaluru, Karnataka, India

Data Modelling Intern

May. 2018 – Jul. 2018

- **Guide : Dr. S. N. Omkar**, Chief Research Scientist, IISc Bengaluru.
- Worked on the project titled "Disguised Person Identification using Motion Signatures" using 3D-Resnet model and PAF.
- Extracted body points using gait analysis and worked on multitask cascaded convolutional neural network (MTCNN).
- Worked on various deep learning models like Resnet and Resnext.

HONORS & AWARDS

- National Winner at Smart India Hackathon (SIH) 2020 — August, 2020.
 - Selected for Microsoft Learn Student Ambassadors Program 2020 — August, 2020.
 - Second Runner's Up (3rd Prize) at Microsoft Codefundo++ 2019 Hackathon — October, 2019.
 - Institute Winner at Microsoft Codefundo++ 2018 Hackathon — October, 2018.
 - Institute Winner at INK Makeathon 2018 — September 2018.
 - Awarded Kishore Vaigyanik Protsahan Yojana (KVPY) 2017 fellowship for excellent academic performance.
 - Bronze Medalist in International Taekwondo Championship by WTF & TAFISA.
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PROJECTS

SATYA

Smart India Hackathon, 2020

Feb. 2020 – Aug. 2020

- Designed and developed a django application in order to combat the corruption and Bribery System in India. Developed an android application for better user experience at our platform.

VISHWAS

Encrypted SMS Service

April. 2020 – Present.

- Created an SMS chat app in Android Studio. The project is under development and the feature of End-to-End encryption needs to be added.

AGNI

Microsoft Codefundo++ Hackathon, 2019

May. 2019 – Sep. 2019

- Developed a secure E-voting application using cryptographic algorithms. This application authenticates the voter and lets the voters vote for the candidate securely.

BRAHMASTRA

Microsoft Codefundo++ Competition, 2018

Oct. 2018 – Feb. 2019

- Developed a web application which helps in natural disaster management in low activity network areas leveraging with USSD & SMS to create a medium between victims and the rescue teams.
- I had developed the dLTE (distributed LTE) network with the help of raspberry-pi and have created a web application.

GARIMA

INK Makers makeathon, 2018

Sep. 2018 – Sep. 2018

- Developed an application which will provide safest path at that particular hour by considering previous 10 years crime dataset & ensures a person's safety and generating the weights from it for particular crime according to their severity.
- I had developed a django application which is searching the safest and the easiest possible route between the source and the destination and have created a SVM model which has been used at the back end part.

TRINETRA

Academic (Data Science) Project

Jan. 2020 – Apr. 2020

- I have built a convolutional neural network (CNN) and optical character recognition (OCR) based working model which is identifying a person riding on the bike without a helmet and recognizing the bike number plate in absence of helmet.

SKILLS SUMMARY

Languages: English, Hindi.

Technical Languages: C++, Python, Java, C, Latex, SQL.

Operating Systems: Linux, Android, RaspberryPi OS, Windows.

Tools & Libraries: TensorFlow, Keras, Android Studio & OpenCV.

Soft Skills: Leadership, Project Management, Event Management, Teamwork, Public Speaking, Report Writing.

Interests: Machine Learning, Computer Vision, Android, Computer Networks, Distributed Systems, Robotics & Automation.

POSITIONS OF RESPONSIBILITY

Co-Founder & Team Lead

Big Data & Analytics Club, NIT Warangal

Jan. 2020 – Present.

- This club has been established for furnishing an analytics culture at NITW.
- As the lead member for the Big Data & Analytics Club, I am responsible for the development of a research culture and improving the research culture at National Institute of Technology, Warangal. Additionally, I am organizing workshops in different areas of data science and analytics.

Additional Secretary

Electronics Amateurs & HAM Club, NIT Warangal

April. 2020 – Present.

- Worked on imparting basic knowledge regarding electronics & robotics amongst zealous students.
- Conducted & Managed various workshops, lectures, projects and competitions.

Sub-Coordinator

Sponsorship Department, SpringSpree'2020, NIT Warangal

Jan. 2020 – Apr. 2020

- I worked as a Sponsorship Sub-Coordinator for NITW's cultural fest named SpringSpree.

Web Developer

Web and Software Development Cell (WSDC), NIT Warangal

Aug. 2018 – Aug. 2019

- I worked as a software developer and have managed the institute website and have built a Django module for the inhouse result section on WSDC portal.

Event Manager

TechFresh, Technozion'18, NIT Warangal

Aug. 2018 – Oct. 2018

- I worked as an event manager for one of the greatest event in our institute's technical fest Technozion.