

Divya Krishnani

Computer Science and Engineering

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[LinkedIn](#)

[GitHub](#) , [Portfolio](#)

[Codechef](#) , [Google Scholars](#)

EDUCATION

Examination	University	Institute	Year	CGPA/%
Graduation	IIIT Naya Raipur	IIIT Naya Raipur	2016-20	9.05
Intermediate/+2	CBSE	KPS Bhilai	2016	90
Matriculation	CBSE	Holy Cross Sr. Sec. School Pension Bada,Raipur	2014	9

INTERESTS

- Machine Learning, Data Analytics, Image Processing, Competitive Programming, Web Development

EXPERIENCE

- Software Engineer Intern at Microsoft, Hyderabad, India** May'19 - July'19
Performed Data Analytics on Microsoft Devices Design Data. Leveraged Azure ML Studio, Azure Web Services and PowerBI for implementation.
- Research Intern at University of Malaya, Kuala Lumpur Malaysia** May'18 - July'18
Mentor: Dr. Shivakumara Palaiahnakote
Developed a Computer Vision and ML-based framework to classify a person's abnormal behavior through posting images in social media. Presented the work in [Data Science Research Symposium, E-Proceedings](#).
- Intern at Fedo(Speslabs Private Limited), Bangalore** Dec'17 - Jan'18
Worked on the image processing module of the project to predict individual risks for diseases by extracting useful text information from low quality images for analysis.
- Web Development Intern at Urban Gauge(Virtual)** July'17 - Sept'17
Headed the company's real estate Wordpress based website by adding web pages and managing the website. Improved the visibility of a website in search engines.

ACADEMIC PROJECTS

- Neural Image Captioning** Ongoing
Mentor: Dr. Srinivas Naik, IIIT Naya Raipur
 - Currently working to implement Show and Tell captioning model by Google using CNN and LSTM to extract features and generate captions using the Flickr8K dataset.
 - Tech Stack:** Python
- Early Prediction of Coronary Diseases using Machine Learning** Jan'19-April'19
Mentor: Dr. Srinivas Naik, IIIT Naya Raipur
 - Implemented a Convolutional Neural Network based model to predict the risk of chronic diseases using existing coronary heart disease dataset with an accuracy of 96.8%.
 - Tech Stack:** Python, Keras
- Detection of Road from vehicle scene for autonomous driving systems** July'18-Nov'18
Mentor: Dr. Ankit Chaudhary, IIIT Naya Raipur
 - Developed an Image Processing based model to detect roads in videos for autonomous vehicles using curve fitting. Optimized the model to work for different light conditions in a day.
 - Tech Stack:** Python, OpenCV (Open Source Computer Vision Library) [[GitHub](#)]
- Student Registration System** July'18-Nov'18
Mentor: Dr. Ankit Chaudhary, IIIT Naya Raipur

- Designed a web-based framework to manage the admission process of BTech candidates in IIIT-NR starting from registration to seat allotment for CG state students based on IIT-JEE Mains scores.
 - Tech Stack:** Django, PostgreSQL, Python, HTML5, CSS, Javascript, Bootstrap Framework[[GitHub](#)]
- Real-Time Face Recognition Tracking and Tagging in Video** Jan'18-April'18
 Mentor: Dr. Muneendra Ojha, IIIT Naya Raipur
 - Implemented a Face Recognition Model to recognize a person's face specifically in video surveillance of IIIT- NR, used CNN for face alignment, google's pre-trained model inception and facenet.
 - Tech Stack:** Python, TensorFlow, OpenCV
- Online Student Feedback System** Sept'17 - Dec'17
 Mentor: Prof. O.P. Vyas, IIIT Naya Raipur
 - Designed a web application for collecting feedback from students about services offered by ITC (Information Technology and Communication) department of IIIT Naya Raipur.
 - Tech Stack:** HTML5, CSS, Javascript, Bootstrap, LAMP(Linux, Apache, MySQL, PHP) [[GitHub](#)]
- Automatic Street Light** March'17 - May'17
 Mentor: Dr. Debanjan Das, IIIT Naya Raipur
 - Created an IoT based Smart Street Lighting System for energy saving on highways by detecting vehicles and glowing the needed block of lights.
 - Implemented with IR Sensors and Arduino Uno

PUBLICATIONS

- D. Krishnani, A. Kumari, A. Dewangan, A. Singh, N.S. Naik, "Prediction of Coronary Heart Disease using Supervised Machine Learning Algorithms", TENCON - IEEE Region 10 Conference, 2019. (Accepted)
- D. Krishnani, P. Shivakumara, T. Lu, U. Pal, R. Ramachandra, "Structure Function based Transform Features for Person Behaviour-Oriented Social Media Image Classification", 5th Asian Conference on Pattern Recognition (ACPR), 2019. (Accepted)
- D. Krishnani, P. Shivakumara, T. Lu, U. Pal, "Person Abnormal Behaviour Identification through Posting Images in Social Media", Data Science Research Symposium, 2018.

TECHNICAL SKILLS

- Languages** : C, C++, LaTeX, Verilog HDL(Basic), Java
- Script** : Python, Linux Shell Scripting
- Web Technology** : HTML5, CSS3, Bootstrap, Django, Javascript, PHP, MySQL, PostgreSQL(Basic)
- Libraries/Packages** : OpenCV, Tensorflow, NLTK, Scikit-Learn, Scipy, Matplotlib, Tesseract-OCR
- Applications** : Jupyter Notebook, Weka, Oracle Database, Microsoft Azure

ACHIEVEMENTS

- Hackathon**, Secured 2nd position in the ideation phase of Microsoft Hackathon Kick-start 2019
- Data Science**, Secured first position in Backyard Data Science event in Technovate 2019 IIIT Naya Raipur
- Coding**, Secured rank 87 at ACM-ICPC 2018 Gwalior, India Onsite finals
- Coding**, Qualified for ACM-ICPC 2018 Gwalior Regionals with college rank 2 and AIR 618
- Winner**, Octocat Design by GitHub in HackDUnhackD (Hackathon, Technovate 2018 IIIT Naya Raipur)
- Finalist**, Top 5 of 50 teams in Aavartan (Technical Fest of NIT Raipur), National Science Exhibition
- Coding**, CodeChef SnackDown Online Qualifier 2017 with 3887 position in Pre-Elimination Round
- Winner**, Technovate 2017 (Techno-Cultural Fest of IIIT Naya Raipur), IIIT wants to know(Journalism)
- 2nd Level NSO**, State Rank- 14 and International Rank- 267 in 2nd Level SOF-18 National Science Olympiad with a Gold Medal in 1st Level with 1st position at School Level

POSITIONS OF RESPONSIBILITY

- Senior Coordinator of Training and Placement Cell, IIIT Naya Raipur
- Volunteer in Technovate, Techno-Cultural Fest of IIIT Naya Raipur
- Organized and Conceptualized various interschool and intraschool events as the Cabinet Minister of Holy Cross Sr. Sec. School Pension Bada Raipur C.G.