

# Aviral Agrawal

aviralagrawal124@gmail.com | +91-9829702802 | aviral-agrawal.github.io

## EDUCATION

- **B.E. Computer Science, Minor-Finance**  
Birla Institute of Technology and Science, Pilani, India  
— Graduated Jul 2020  
**CGPA : 9.18/10**  
**DISTINCTION Division**
- **Standard XII**  
ASN Sr. Sec. School, India — Completed May 2016  
*PERCENTAGE : 95.2%*
- **Standard X**  
Amity Int. School, Noida, India — Completed May 2014  
*CGPA : 10/10*

## COURSEWORK & SKILLS

- **Courses**  
Machine Learning, Data mining, Data Structures and Algorithms, Design and Analysis of Algorithms, Object Oriented Programming, Operating System, Database systems, Compiler Construction, Computer Networks.
- **Skills**  
Python, PyTorch, TensorFlow, PySpark, C++, Java, Flask, AWS.

## PUBLICATIONS

- **Development of a Machine Learning based model for Damage Detection, Localization and Quantification to extend Structure Life.**  
**Mar 10, 2021 Elsevier B.V.**  
This paper proposes the use of a physical structure's Transmissibility functions as input to a novel composite architecture consisting of Deep CNN followed by multivariate linear regressors to detect, localize, and quantify the damage extent in a system. [Link](#)

## SCHOLARSHIPS

- **Scholarship America : 2017, 2018, 2019**  
Awarded based on extensive evaluation of performance so-far, ranging from academics to extra-curricular activities. Received the scholarship thrice.
- **Kishore Vaigyanik Protsahan Yojana : 2014-15**  
Awarded by the GOVERNMENT OF INDIA for my academic aptitude and out-of-the-box thought process. Secured an All India Rank (AIR) of 406. The scholarship attracts 100K+ applicants each year.

## EXPERIENCE

- **SAMSUNG RESEARCH INSTITUTE BANGALORE**  
**Computer Vision Engineer, India, Jan 2021 - Present**  
Worked on AI-based Video compression tools with the goal of achieving BD-rate gain while maintaining/reducing complexity with complete ownership on the coding tool design and development.
- **ORACLE**  
**DevOps Engineer, India, Nov 2020 - Jan 2021**  
Part of the OCI Exascale team. Responsible for enhancing the services available to customers in the form of cloud-based exascale services.  
Creation and complete ownership of a FLASK based service and deployment on server.
- **AMAZON**  
**Research Engineer Intern, India, Jan 2020 - Jul 2020**  
Deliverable has huge impact on the company's customers in Asia region. Designed a Language generation model for on-the-fly Text generation and also worked on an end-to-end text classification model and pipeline.
- **SAMSUNG RESEARCH INSTITUTE BANGALORE**  
**Student Trainee, India, May 2019 - Jul 2019**  
Created a multi-camera based solution for image super-resolution. Worked on the project from scratch consisting of data collection to model creation.
- **MAPMYINDIA**  
**Intern, India, May 2018 - Jul 2018**  
Devised a new Database schema for efficient processing of traffic data dump. Worked on materializing the pipeline for the same.

## AWARDS, RECOGNITION, SCORES

- **Bengalathon 2019-20**  
Felicited by the WEST BENGAL GOVERNMENT for winning(multiple winners) the hackathon and contributing to the development of the state by our novel solution and handing over the working solution.
- **University Merit Scholarship : 2016-** Awarded to top 0.2% students decided by merit.
- **Certificate of Merit : 2016-** Awarded for securing 100% in chemistry.
- **Certificate of Merit : 2014-** Awarded for securing A1 grade in all courses.
- **JEE Advanced rank : 2016-** All India Rank 2724.
- **JEE Mains rank : 2016-** All India Rank 1232.
- **BITSAT score : 2016-** Score 395/450.