

Aryan Kumar Gupta *Pre-Final Year UnderGrad*

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Experience

Carnegie Mellon University, *Research Intern* 2021 Jan – present

- Performing Object Detection on a molecular level.
- Utilizing Transformer Network for detecting cellular objects on Cryo-EM data.

Tata Communications, *Project Intern* 2020 Sep – present
Mumbai, India

- Working on Facial Sentimental Analysis Model using Deep Learning Architectures.
- Explored and compared performance on VGG-16, MobileNetV2 architectures.
- Upcoming project to predict cloud failures.

INDIAN INSTITUTE OF TECHNOLOGY-KHARAGPUR, *Research Intern* 2020 Jul – 2020 Oct

- Worked under Safety Analytics for analyzing Construction Site Catastrophe reports.
- A Hybrid Neural Network proposed with Attention.
- Applied Chunking and Vectorization to classify causes and chunk out fatal objects.

Projects

Sign to Speech Conversion, *An Automated System for Mute People*

- Bridges the Communication Gap between the Deaf community, and the hearing majority.
- Developed Deep-Learning Model with CNN which classifies input sign language gestures into Speech Modules.
- Link: [Click Here](#) 📄

VISION-I, *A Blind Assistance System*

- Blind assistance system developed using TensorFlow APIs.
- Assists the Blinds in Identifying Objects in Real-Time for Obstacle Detection and Navigation
- Estimates an approximate distance and generates the voice alerts.
- Publications: ICMLIP Conference, Springer.
- Link: [Click Here](#) 📄

Face Mask Detection and Sentimental Analysis, *Tata Communications* 2020 Sep – present

- Developed Facial Mask Detection and Sentimental Analysis system using Keras/Tensorflow, OpenCV, and CNN architectures.
- Proposed architectures outperform MobilenetV2, VGG-16 architectures and achieve an average weighted F1 score of 0.98.

Safety Analytics, *Construction Site Accident Analysis* 2020 Aug – present

- Worked under Safety Analytics, IIT-KGP for analyzing Construction Site Catastrophe reports.
- Applied Chunking and Vectorization techniques to classify causes, chunk out fatal objects involved in accidents.
- A Hybrid Neural Network proposed with an Avg. F1 Score of 0.89.

Education

Vishwakarma Institute of Technology, *Bachelor of Technology* 2018 Aug – present
Pune, India

- Area of Specialization: INFORMATION TECHNOLOGY
- CGPA: 8.15

MacroVision Academy, *Higher Secondary* 2016 May – 2018 May
Burhanpur, India

- XII CBSE Boards : 84%

Christ Jyoti Senior Secondary School, *High School* 2012 Oct – 2016 May
Satna, India

- X CBSE BOARDS CGPA: 9.6 /10

Skills

C • C++ • Python • Deep Learning • Machine Learning • Computer Vision • Natural Language Processing
Leadership • Communication • Team Management

Extra-Curricular

The Robotics Forum, Administrator and DL Developer

- Directing smooth and interactive conduction of Technical Workshops.
- Accelerating Hands-on-Learning experience.
- DL Developer: Accomplishing DL Projects for the club.

2020 May – present

Blogging and Youtube

- A Technical Blog [☑](#) maintained under Medium.
- A Youtube Channel [☑](#) for the Projects Accomplished.

KPMG, Data Analytics Consultant Virtual Internship

- Developed an Analysis model for accelerating drive in sales.
- Used several correlations and Heatmap plotting techniques to carry out an analysis.
- Learnt to deal with Data Preprocessing Schemes