Vansh Gupta

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🎓 EDUCATION

B.TECH IN ELECTRONICS AND COMMUNICATION,	Aug 2018 – Jul 2022
Guru Gobind Singh Indraprastha University	Delhi, India

CGPA - 8.61/10 (Last 2 years - 9/10)

Relevant Courses - Introduction to Programming, Fundamentals of Computing, Data Structures, Database Management System.

💼 PROFESSIONAL EXPERIENCE

RESEARCH INTERN, *ROBERT BOSCH CENTRE FOR DATA SCIENCE AND ARTIFICIAL INTELLIGENCE,INDIAN INSTITUTE OF TECHNOLOGY MADRAS*	Aug 2021 – Nov 2021 Chennai, india

- **Supervisor** - Dr. Krishnan Balasubramanian
- **Topic** - Baggage Scanning System
- **Role** - Using CT scanned images, achieve state-of-the-art precision in finding bombs and detonators in luggage.

RESEARCH INTERN, *INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD*	Jun 2021 – Aug 2021 Allahabad, India

- **Supervisor:** Prof. U. S. Tiwary
- **Topic:-** Dialogue State Tracking
- **Role:-** Implementing Various Deep learning Models on MultiWoz2.2 Dataset
- **Models Implemented :** TripPy,SimpleTOD,ConvBERT-DG + Multi,TripPy + SCoRe,TripPy + CoCoAug

MACHINE LEARNING INTERN, *KOIREADER TECHNOLOGIES*	Feb 2021 – Oct 2021 Banglore, India

- **Mentor** - Himanshu Singh (Machine learning Lead)
- **Projects** - Language Detection, Invoice type Detection, Address matching, OCR ability test, OCR for invoices
- **Skills Gained** - Advanced NLP topics such as Transformers, BERT, Embeddings, etc.

MACHINE LEARNING INTERN, *DATA-STATS*	May 2020 – Sep 2020 Delhi, India

- **Mentor:** Sumit Gupta (CEO)
- **Projects:** Scan-Ease (Document Scanning app), Deep Fakes
- **Skills Gained**: Generative adversarial networks, RestAPI, Firebase, Heroku, AWS.

📰 PUBLICATIONS

OCRNet - Light-weighted and efficient Neural Network For Optical character recognition, *IEEE Bombay Section Signature Conference Thu, 18 Nov, 2021 – Sat, 20 Nov, 2021*	Nov 2021

First Authors in Bold - **Vansh Gupta**,**Ayush Gupta**,Nikhil Arora,Jai Garg

Status - Accepted and Presented

Threat Detection using Machine Learning in Public Places, INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT) *Volume 10, Issue 10 (October 2021),*	Oct 2021

First Authors in Bold - **Vansh Gupta**, Manya Kakkar, Jai Garg, Dr. Sanjay Kumar

Status - Published

Improvement in Semantic Address Matching using Natural Language Processing, *International Conference for Emerging Technology (INCET), 2021, pp. 1-5, doi: 10.1109/INCET51464.2021.9456342.* 🔗	May 2021

First Authors in Bold **- Vansh Gupta**, **Mohit Gupta**, Jai Garg, and Nitesh Garg

Status - Published

FACE MASK DETECTION USING MTCNN AND MOBILENETV2, *International Research Journal of Engineering and Technology* (IRJET) *, Volume 8 Issue 3 March 2021*	Mar 2021

First Authors in Bold - **Vansh Gupta**, Rajeev Rajput

Status - Published

📁 PROJECTS

DEEP FAKES   Jul 2020
- Was made using First Order Motion Model.
- Has been implemented using a Research paper.
- GANS was used to create the model

CLASSIFICATION OF OBJECTIONABLE MATERIALS USING X-RAY IMAGES   Jan 2021
- Made a machine learning Model to detection Objectionable Materials in luggage
- Concepts of Transfer learning was used during the project
- This project helps us to secure the win in SIH.

COVID-19 FACE MASK DETECTION   Sep 2020
- This project was made to detect whether a person is wearing a mask or not.
- Used MTCNN and MobileNetV2 for the task.
- Model was giving 98% accuracy and was able to predict all the faces in a crowded place

MOVIE RATING PREDICTION   Mar 2020
- Predicts the rating of a movie based on reviews.
- Concepts like word vector, tf-idf were used.
- Lib used :- gensim,pandas,numpy,sklearn

📖 COURSES

SOFTWARE FOUNDATION COURSE, *Indian Institute of Technology Bombay*   Jan 2021 – Mar 2021
                                                                             Mumbai, India
- This course was part of M tech 1st semester course on Linux in IIT-B
- Learning's :- Linux, Bash, SED , AWK, Python, Git, Networking.
- Got 1st rank ans was offered an internship at IIT-B

MACHINE LEARNING, *CODING BLOCKS*   Dec 2019 – Jun 2020
                                                                             Delhi, India
- I was position First during the Course.
- During this course, we made numerous interesting ventures like AI music Generator, AI Picture Caption Bot, Emoji prediction using NLP.

NEURAL NETWORK AND DEEP LEARNING, *DEEPLEARNING.AI*   Mar 2020 – May 2020
                                                                             Online

CRUX, *CODING BLOCKS*   Dec 2018 – Feb 2019
                                                                             Delhi, India
- I was positioned second during the course
- Had inclined numerous ideas like Dynamic Programming, Recursion, various concepts.

🏅 AWARDS AND ACHIEVEMENTS

WINNER, *Smart India Hackathon 2020 - Ministry of Railways*   May 2021
- SIH is the biggest hackathon sponsored by the Ministry of Education and it was an honor for me to lead my team to victory.
- Made an Intelligent Scanning System (Non-invasive, quick, and cost-effective way of checking of parcels in parcel offices (both booked by railway and leaseholders)

ENCOURAGEMENT AWARD, *Clean Air Asia 2020 -Nature hack for Clean Air*   Jun 2020
- This Hackathon looks for innovative ideas towards nature-based innovative solutions.
- Presented a research paper for Smart Traffic light system using IoT.

FINALIST, *E-YANTRA IIT Bombay*   Mar 2020
- E-Yantra is a national-level robotics competition organized by IIT Bombay annually.
- I and my team made an LFR robot which follows both black and white line, zigzag, Wall following, obstacle handling, etc.

🛠 FRAMEWORKS

Tensorflow | Keras | BERT | Hugging Face | NLTK | Scipy | Sklearn | Gensism | PIL | Pytorch
Firebase ML kit | OpenCV | Numpy | Matplotlib | Ros | Tkinter

KEY SKILLS

Data Science | Machine Learning | NLP | Computer Vision | Image Processing | Deep learning
Neural Network | Reinforcement learning | Python | Java | C++ | Data Structures