

# Manan Agrawal

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## ABOUT ME

I am currently exploring deep learning and artificial intelligence in multi-disciplinary areas. I have a good understanding of various neural networks like CNN, GANs, RNN, etc.

I also have a good amount of experience as an full-stack developer and UI/UX web designer. Currently looking for new opportunities to level up my skills.

## EDUCATION

### **BITS PILANI, PILANI CAMPUS**

Msc. ECONOMICS, BE IN EEE  
August 2019 - Present

### **SD JAIN MODERN SCHOOL** CBSE

2018| Surat, India

## COURSEWORK

Machine Learning  
Deep Learning  
Convolutional Neural Networks  
App Development  
Web Development  
Econometric Methods  
Fundamentals of Finance and  
Accounting  
Derivatives and Risk Management  
Probability and Statistics

## SKILLS

### **PROGRAMMING**

Languages:

Python • Javascript • HTML/CSS • Dart  
Golang • C++ • C • Solidity(Ethereum)

Frameworks:

React JS • React Native • Flutter  
TensorFlow • PyTorch • NodeJS Django  
• Flask

Libraries:

NumPy • Pandas • OpenCV • SciPy  
Matplotlib

Softwares:

Adobe Illustrator • Figma • Adobe XD  
Autodesk

## EXPERIENCE

### **MCEME, SECUNDERABAD** | RESEARCH INTERN

May 2021 – Aug 2021 | Remote

- Worked on a speech recognition using AI to understand human speech and convert speech to text.
- Developed Chinese text to Hindi text translator with LSTM based model with a maximum BLEU score of **0.32**.

### **ILRNU INC.** | FULLSTACK DEVELOPER

Oct 2020 - December 2020 | Remote

- Worked with the team on the 2.0 update of the website refactoring the current design and adding new features
- Migrated website database from mySQL to mongoDB collections.

### **STUDENT WELFARE DIVISION** | SOFTWARE DEVELOPER

Jan 2021 - May 2021 | BITS Pilani

- Developed a portal for BITS Pilani for registrations for MCN scholarship offered by the institute.
- Improved the user experience of approximately 5000 students applying for MCN scholarship.

## PROJECTS

### **WORK DISTRACTION ANALYZER**

Aug 2022 – Present | Independent

- Working on a system to detect and analyze the work productivity graph through their browser app usage activity and show recommendation to improve productivity.

### **BERT QA ON SQUAD DATASET**

May 2022 - Jul 2022

- Achieved an EM score of **86.9** and an F1 score of **93.15** by implementing google BERT on the SQuAD dataset.
- Optimized the model to process long context document.

### **DRONE-BASED MONITORING OF INDIAN ROADS**

Dec 2021 – May 2022 | Prof. Pratik Narang

- Worked on a system to detect road damages using drone images.
- Collected dataset using drone for real time prediction of road cracks.
- Implemented the current design using the GANs, CNN and Detr object detection algorithm, the final deployment will be in python.

## POSITION OF RESPONSIBILITY

### **DEPARTMENT OF VISUAL MEDIA** | COORDINATOR

Aug 2019 – Present | BITS Pilani

- Worked as a team lead for conducting the BPL 2022
- Developed various websites and web applications for the college fests

### **NATIONAL SOCIAL SCHEME** | COORDINATOR

Aug 2019 – Present | BITS Pilani

- Planned and organized the first online educational initiative in the organization for class 6th to 10th students, organised 3 day long series on Cybersecurity