Manan Agrawal

manan-agrawal.tech | mananagrawalbitsp@gmail.com
linkedin.com/in/mananag/ | github.com/mananag/ | 8000007505

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(Ehtereum)
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

CARNEGIE MELLON UNIVERSITY | Research Intern

December 2022 – Present | Remote
- Working with Dr. Min Xu and Dr. Fang from Fudan University, Shanghai.
- Developing the a monocular image depth estimator for the grayscale nanotubes images. **0.32**.

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.

PROJECTS

WORK DISTRACTION ANALYZER

Sep 2022 – Present | Independent
- Working on a system to detect and analyze the work productivity graph through there browser app usage activity and show recommendation to improve productivity.

GOOGLE BERT MODEL 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