SUMANTRAK MUKHERJEE

BITS Pilani, Pilani

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EXPERIENCE

Web Development
Anand Group

📅 November 2019 – January 2020   ● Pune, Maharashtra

- Developed a fully functional regular,responsive dashboard.
- Technology used for backend:Node.js, MongoDB, Express.
- Technology used for frontend:HTML,CSS,Bootstrap,Jquery,Javascript.

AI Consultant
Employee Outlook

📅 December 2020 – Present   ● Pune, Maharashtra

- Initiated NLP Project to provide scores to reviews.
- Completed Project to give helpful suggestions based on text.

PROJECTS

Detection of mask on Face
Self-Learning Project

📅 October 2019 – November 2019

- Deep Learning + OpenCV to detect faces in an image or video stream and classify on the basis of presence or absence of mask.
- Used VGG model for image encoder.
- Trained on custom data set.

Hate Speech and Self Harm Detection on BITS Confessions Page Data
Exploratory Project

📅 June 2020 – July 2020

- A dataset was created by scrapping data from the BITS Pilani Confessions Page on Facebook.
- Created embeddings for the dataset using BERT. Trained a Neural Net with CNNs(for context), ReLu(for non linearity), Max Pooling and Dropout to prevent over-fitting, Softmax (for multi-label classification)

Reinforcement Learning for Playing Chess
Exploratory Project

📅 August 2020 – September 2020

- Developed a RL model to learn to play chess using.
- Policy Iterations
- Model free Learning
- Policy Gradient

EDUCATION

B.E.(Hons) in Electronics and Instrumentation
BITS Pilani, Pilani

📅 July 2019 – Present   CGPA:7.13
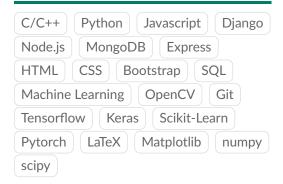
Class XII
Akshara International School, Pune

📅 June 2019   95.00%

Class X
Loyola School, Jamshedpur

📅 June 2017   92.00%

SKILLS

C/C++   Python   Javascript   Django
Node.js   MongoDB   Express
HTML   CSS   Bootstrap   SQL
Machine Learning   OpenCV   Git
Tensorflow   Keras   Scikit-Learn
Pytorch   LaTeX   Matplotlib   numpy
scipy

POSITION OF RESPONSIBILITY

SIG Team Lead for ML/AI
BITS-ACM

📅 August 2020 – Present

- The ML/AI Team aims to promote ML/AI on campus through hand holding for beginners and hands on experience through Open Source projects and regular reading groups
- As a team of 12 we have explored Reinforcement Learning, Unsupervised and Semi Supervised Learning, Code Mixing in NLP. Currently there are 2 ongoing projects.

ACHIEVEMENTS

- 335/450 in BITSAT 2019
- 98.91 percentile in JEE Main 2019 of 1.1 million candidates