Ankur Tiwari

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Education

Netaji Subhas Institute of Technology *New Delhi, India*
BACHELOR OF ENGINEERING IN COMPUTER ORGANIZATION AND ARCHITECTURE(COE) (Unfinished) *August 2018 - May 2022*

Delhi Public School , Dwarka *New Delhi, India*
SCHOOLING *April 2004 - March 2018*
- Secured **AIR -1488** in **JEE -MAINS** among 14 lakh students
- Secured **AIR- 2714** in **JEE-ADVANCED** among 1 lakh students
- Cleared **RMO** in class 11th
- Secured **93%** in class 12th and **95%** in class 10th

Skills

Languages	Python, JavaScript, C++, C
Frameworks	Express 6 , Sklearn, Pandas, Numpy, OpenCV, NLP, Tensorflow, Keras ,Flask, MatPlotLib
Databases	MySQL, MongoDB
Technologies	HTML5/CSS3/Bootstrap4, Redis, JQuery
Development tools	VisualStudioCode, Git, GitHub
DSA skills	Well versed with algorithms and Data Structures ,dynamic programming , greedy problems , game theory , graphs

Projects

Delhi Government School Ranking website
- A website which ranks the school on the basis of their contribution in achieving the sustainable development by considering factors like lab equipments , passing percentage of students ,percentage of greenery in the campus etc .
- The project uses **Nodejs** backend, **CSS**, **JavaScript** frontend, **MongoDB** database with **EJS** as templating engine.

Women Help website
- An employment exchange portal for suppressed women with the required job skills where recruiters can post about the job availability .This site also helps women by providing the financial help in money management.
- The project uses **Nodejs** backend, **CSS**, **JavaScript** frontend, **MongoDB** database with **EJS** as templating engine.

Image Captioner
- A model which gives captions describing the input image.
- State of the art **Resnet50 model** was used to extract features from an image, **Word2Vec** representations for the captions for the input to a non-sequential **RNN/LSTM** model for predicting the caption.

AI Music Generator
- A model which generates MIDI music files starting from any input 100 notes/chords.
- This model generates new music by training on the **music MIDI files** of the already existing songs which are decomposed into individual chords and notes into group of 100 which are input into the **RNN/LSTM** model which outputs the predicted chords/notes.

Clothing Image Classifier
- A model which classifies images of fashion items into their sub-classes
- A model is trained on the MNIST fashion training dataset using **CNNs(Convolutional Neural Networks)** consisting of **convolutional , pooling ,dropout and dense layers** which classifies the image of a fashion item into one of the ten classes.

Parkinson's Disease Predictor
- This model predicts whether a person has Parkinson's disease(2nd most degenerative neural disorder after Alzheimer's) or not, using **xgboost**.

Courses

- Coding blocks – machine learning course(top performer)
- 'Deep learning.ai'- coursera
- Coding ninjas – competetive coding (top performer) and full stack web development