

HEERAK KASHYAP

ACADEMIC PROFILE

| Degree/Certificate | Institution | Percentage/CGPA | Year |
|--------------------|--|-----------------|------|
| B-Tech | Electrical Engineering IIT (BHU), Varanasi | 8.42 | 2026 |
| CBSE (XII) | DAV public school, Amritsar | 88.80 | 2022 |
| CBSE (X) | Dav public school, Lawrence road Amritsar | 88.00 | 2020 |

SKILLS

Exposure

- **Programming Languages:** C, C++, Python
- **Exposure:** Machine Learning, Data Science, Deep Learning, NLP

PROJECTS

Sentiment Analysis of IMDB reviews using LSTM Model

- Visualized **IMDB reviews** for the movies that were annotated in positive, neutral or negative classes, made sure **Data Imbalance** was not there, **Data Pre-Processing** was done.
- further **Tokenization** and **Pad sequences** were applied to the data, we set up the **LSTM** model with **Embedding**, **Lstm** and **Dense** Layers, compiled the model with **Adam**, **binary Cross entropy** and metrics as **Accuracy**.
- Trained the model with **5 epochs**, Model Evaluation was done with **92%** Accuracy on Test data and finally made a predictive system.

Face Mask Recognition using CNN Model

- Changed the labels for the collected dataset in **Binary** digits, followed by **Image Processing** by doing Image Resizing & converting in **NumPy** Arrays.
- After performing **train test** data split, **scaling** of data set was done and **CNN** model was being prepared.
- **TensorFlow** and **Keras** Lib were used, further **Sequential** model along with **Conv2D**, **MaxPooling2D**, **Flatten**, **Dense**, **Dropout** were used.
- **Compiling** of Neural Network was done using **adam**, **categorical crossentropy**, **acc** as metrics then Training of CNN was done and model Evaluation was done on Test data with **>93%** accuracy.

** SMS/E- Mail Spam and ham Classifier Model**

- using **TF-IDF** Vectorizer, an end-to-end model was built and deployed on **Heroku**. Performed **EDA** and Data Cleaning on the dataset, further **Feature Engineering** and **Tokenization** was done.
- Tokenized data was Pre-processed. **Word Cloud**, **Pair-plot**, **Hist plot** and Correlation was used to display the relationship n/w various features, created a Multinomial **Naive bayes** model that predicted input text as Spam/ham and used this model as Performance baseline, gaining **precision_score : 1** and **Accuracy > 99%**
- Tried using **Voting Classifier** to boost the Performance, compared the model performance by using other models : **ETC**, **KN** and finally created a website and deployed on **Heroku**.

CERTIFIED COURSES

Microsoft Azure Artificial Intelligence Fundamentals (AI-900)

Passed the AI-900 Exam

Scored 850/1000 in Microsoft Azure AI Fundamentals Exam (AI-900) and Required score to Pass the Exam - 700

Machine Learning

1 month (22 june - 22 july)

1 month of Internship in ML

Completed 2 months of Training/Internship at Wayspire EdTech Pvt Ltd in Artificial Intelligence and Machine Learning.

POSITION OF RESPONSIBILITY

Video Editor

served as Video Editor/grapher for departmental fest video

Captured some amazing drone shots of Electrical department and also helped senior in Editing major clips for the respected video.

DFZ

1 month

Choreographed/participated in Outfest'23

Participated as a core member for the outfest'23 held in NIT Kurukshetra

HONOURS AND ACHIEVEMENTS

MIT (Manipal Institute of Technology) Exam

Among top 0.6% of candidates who appeared for MIT exam , securing AIR - 1325

EXTRA-CURRICULAR ACTIVITIES**G-20**

1 month

represented IIT BHU During G-20 summit from DFZ

Performed Bhangra in a group dance in front of various representatives from various countries choreographed by myself and other team partner .

Powerlifting

Arm-wrestling Competition (IMS BHU)

Participated in Arm -wrestling competition held in IMS BHU and secured 1st position in (85> kgs) Category .

Powerlifting

Deadlift Competition

Participated in deadlift competition during Gc Boys and secured 3rd place in (69-77 kgs) Category .

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