Arpita Chatterjee

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EXPERIENCE

The Young Minds, *Machine Learning Intern*

October 2020 - March 2021

- Built an **Image Classification/ Object Detection** model using CNN(Tensorflow, Keras).
- **Implemented YOLO algorithm** to improvise the performance by 87 % of the model for object detection.
- Technologies used-- **Python, CNN, TensorFlow, Keras, OpenCV**

The Sparks Foundation, *Data Analyst Intern*

December 2020 - January 2021

- Implemented a **Classified Decision Tree algorithm** on the Iris dataset to predict the class of the test dataset with **92% accuracy.**
- Libraries used--**Python, Scikit-learn, Numpy, Pandas, Seaborn.**

PROJECTS

Comedians' Routine Analysis —NLP- *SourceCode*

- Implemented **various NLP techniques** like **Sentiment Analysis, Topic Modelling, and Text Generation** on a dataset using LSTM.
- Dataset- a collection of transcripts of 10 comedians.
- Libraries/Tools-requests, **BeautifulSoup**, CountVectorizer, Scikit-Learn, **WordCloud**, seaborn,**TextBlob, Gensim, NLTK**

Price Prediction Model — Machine Learning-*SourceCode*

- **Built an AI Website** using machine learning algorithms to predict the selling price of cars with an **accuracy of 87%** and **deployed** it on Heroku.
- Technologies/ Libraries used-- **Python, Scikit-learn, Scipy, NumPy, Pandas, Matplotlib, Seaborn, Flask, HTML/ CSS**.

Biometric Attendance System — Computer Vision- *SourceCode*

- Built a **Facial Recognition Model** in **Python**.
- Used Face Recognition library, to **detect the face locations and its encoding** in training dataset.
- **Compared faces** with **test dataset**, using the face_distance,
- If the face_distance of the test and training dataset is **more than threshold** value then the result is saved and stored along with time of input in the file.
- Tools/Libraries used- **Python, Face Recognition, OpenCV, NumPy**

SKILLS

- **C++, Python** , HTML/CSS , JavaScript.
- **Data Structures and Algorithm** , Database Management System, Operating System, System Design, **Object Oriented Programming , MySQL.**
- **Numpy , Pandas**, TensorFlow, Keras, Matplotlib, Seaborn,OpenCV .
- **Machine Learning** , Natural Language Processing(**NLP**), Data Analysis, **Deep Learning** , Web Scraping.
- **Leadership**, **Communication**, Team-Player,**Problem Solving**.

EDUCATION

SRM Institute of Science and Technology, *Chennai, India— B.Tech,*

June 2018 - May 2022

Course-Computer Science Engineering with Specialization in Software Engineering, CGPA-9.7

Srimanta Shankar Academy, *Assam, India*

Class XII--80% (2018)
Class X--87.5% (2016)

ACHIEVEMENTS

- **Google-KickStart'21**- Participant
- **Google-CodeJam'21**- Participant
- **Monster-TechnoDiva'21 Hackathon**- Participant as Freshers in domain Data Science
- **Capgemini Tech Challenge 2021**- Participant in the Data Science and Regional Skills Categories.
- **HackerRank Certified** in **Python, SQL.**
- **SRM MUN'2020**- Participant as a Debater