Utkarsh Babbar

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EDUCATION

Thapar University, Patiala
BE in Electronics And Computer
Expected Grad. May 2022
CGPA: 8.61

ISC, Class XII
Doon Presidency School
Grad. May 2017
Percentage: 86

SKILLS

Languages:
C++, Python

Courses:
Computer Networks, Operating Systems, DBMS, DSA, ML

Frameworks:
Django

Databases:
mySQL, SQLite

ML Libraries:
Numpy, Pandas, Matplotlib, Tensorflow, Keras

Tools:
Git, Heroku, Jupyter

HACKATHONS

•HackOWASP • ZS-Hackathon
•HackTIET

CODING PROFILES

Leetcode: utkarsh-babbar
InterviewBit: BABBARutkarsh
HackerRank: utkarshbabbar661

BLOGS

• Machine Learning Blog
• DS and algorithms blog

EXPERIENCE

SAMSUNG Prism May 2021 – November 2021
R&D Intern SRI, Bangalore

- Implemented and explored **RNN** based deep learning techniques for image captioning on **Flickr** dataset
- Explored how Image **transformers** could be utilized to make image captioning more relevant and accurate.
- Made an ensemble of latest transformer based pipelines and achieved a **CIDEr score of 0.88**

PROJECTS

1. ThapSpace [2021]-Link
Capstone Project: Django, HTML, CSS, JS, Heroku, Dialogflow
• A **Django** based job portal where students can get updates about job opportunities and can apply for them.
• A portal to share and explore capstone projects.
• **Important Features:** CRUD operations, authentication system, search headline/tags, query form, comment section, chatbot.

2. BRATS2020 challenge [2020]-Link
A team project undertaken under TIET faculty: Tensorflow, Keras, nnUnet
• Multimodal Brain Tumor Segmentation challenge where we were provided with **pre-cleaned MRI scans** which were to be classified in four classes.
• Implemented state of the art **deep learning** unet architectures on the dataset and narrowed down to **nnunet and resunet** which gave us the best dice scores.
• Achieved a dice score of **0.86842** which landed us in top 50 of leaderboard Team Name: Gurinder

3. Podcast Recommendation System [2020]-Link
A content based recommendation system: BoW, TF-IDF, Word2Vec, NLTK
• Applied Natural Language Feature Engineering and built a content based recommendation system
• Used NLP Models **(Bag of words, TF-IDF, Word2Vec)** to recommend similar podcasts using cosine similarity index.

ACHIEVEMENTS

- Solved **650+** questions on interviewbit and leetcode
- Won **second prize** out of 150+ participating teams in HackOWASP hackathon where we solved an ISRO's problem statement
- NSTSE state rank 25,school rank 1 (2016)
- Third rank in InterviewBit problem solving university ranking