SREEKAR PARUCHURU

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Education

Indian Institute of Technology (Indian School of Mines) Dhanbad, India	**Dec. 2020 – May 2024**
Bachelor of Technology in Electronics and Communication Engineering	*GPA: 7.61/10.0*

Experience

Technophilia Solutions	**June 2023 – July 2023**

Data Science, Internship
- During my tenure as a Data Science intern, I had the invaluable opportunity to work extensively with a diverse array of ML and Deep Learning models. I gained hands-on experience in designing, developing, and fine-tuning various models.
- Worked on Image Classifiaction using the **MNIST** dataset, Achieved a highest test accuracy of **97.72%** with the Flatten-layer model.
- Tech Stack : Tensorflow, Matplotlib, Seaborn

Projects

Text Sentiment Analysis with BERT | *Personal Project*	**August 2022**

- Trained a sentiment analysis model on a dataset of **31,962 tweets** which are labeled racist/sexist or non offensive.
- Fine-tuned a **BERT** based transformers model, refining its accuracy by training it for multiple epochs on the dataset.
- Deployed a web application utilizing the model using **flask**.
- TechStack Used: Tensorflow, Flask, Pytorch.

Synthetic Image Generation using Generative Adversarial Network (GAN) | *Personal Project*	**July 2023**

- Developed a **Generative Adversarial Network** (GAN)-based project generating lifelike digit images from **MNIST** dataset. Trained discriminator and generator using mini-batch gradient descent, optimizing hyperparameters, and monitoring losses for realism.
- TechStack Used: Tensorflow, Numpy, Python.

Image Caption Generator using VGG and LSTM | *Personal Project*	**February 2023**

- Developed an image captioning system, utilizing Deep Learning techniques, trained it on **flickr8k** dataset, and deployed it using **FastAPI**.
- Leveraged the **VGG16** model for image feature extraction and Implemented an **LSTM**-based neural network for caption generation. Achieved a **BLEU-1 score of 0.536 and BLEU-2 score of 0.311**, indicating effective caption generation.
- TechStack Used: Tensorflow, FastAPI, Pickle.

Technical Skills

Languages: C++, Python, C
Development and Frameworks: Flask, jQuery, Bootstrap, HTML, CSS, JavaScript, NodeJS
DataBase: MongoDB, MySQL
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, Tensorflow, Keras, PyTorch.
Productive Skills: Data Structures and Algorithms, Object Oriented Programming, Machine Learning, Data Base Management System (Basic), DataAnalytics(Basic).
Courses: Machine Learning, Deep Learning, Blockchain, Computer Netwroks, Computational Finance.
Miscellaneous: Canva.

Achievements

ATSO: Secured **Gold medal** in Aptitude Talent Search Olympiad(ATSO) -2016, 2018.
SOF: Secured **Gold medal** in NSO - 2017,2018
JEE Advanced: Ranked 4120 in **0.16 million** applicants
AP EAMCET: Secured a rank of **225** among **0.15 million** candidates in 2020
Flipkart Grid: Qualified for round 2 and participated among 1000 teams.

Competitive Programming

HackRank: **Five Star** in Problem Solving and C++
GFG: Solved around **250+** problems
LeetCode: Solved around **100+** problems

Position of Responsibility

Mentor and Event Organizer for Electronics and IOT Club, IIT Dhanbad	**March 2022 - May 2023**
Member of Organising team, Concetto:	**October 2022**

The Annual Techno-Maganement Fest of IIT ISM.

Volunteer, General Sports Championship:	**February 2023**

The Annual Sports Fest of IIT ISM.