

Shrey Pandit

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Education

Birla Institute of Technology and Science

B.E. IN COMPUTER SCIENCE

Goa, India

Aug. 2019 - Present

- GPA - 8.18/10
- Completed relevant courses like Object oriented programming, Data Structures and Algorithms, Database Management system, and Optimization.

Work Experience

MIDAS Labs - IIIT Delhi

RESEARCH INTERN

Delhi, India

Jan. 2021 - Present

- Part of the group involved in research revolving around Deep Learning and Finance, worked with data set of text and audio format and designed a multi-modal architecture
- In-depth post training analysis was conducted thereafter that resulted in finding insights on model performance.

Publication

An Autoencoder Based Approach to Simulate Sports Games.

ECML-PKDD

AUTHORS: VASWANI, ASHWIN, GANGULY, RIJUL, SHAH, HET, S, SHARAN RANJIT, **PANDIT, SHREY**, AND BOTHARA, SAMRUDDH

2020

- The purpose of the paper was to propose a novel architecture that could be used to predict the result as well as individual stats for players and teams. The model predicted all matches played by teams in the Champions League 2020, and correctly predicted the winning team even before the matches were actually played.

Teaching Experience

Introduction to Machine Learning and Deep Learning

INSTRUCTOR

BITS-Goa

Jan. 2021 - Present

- Responsible for delivering lectures related to Machine learning and Deep learning to students of different semesters

Deep Learning

MENTOR

BITS-Goa

Sept. 2020 - Dec. 2020

- Responsible for taking lectures, creating code notebooks, creating and evaluating Quizzes for students of various semesters and college.

Concepts of Deep Learning

AUTHOR

Online

Present

- www.conceptsofdeeplearning.tech - This is a technical website that I have written with an aim to create online learning content for students who wants to learn Deep Learning, it starts from the basics of python all the way up to Computer vision. It also contains other materials like my review to research papers in the field of Deep Learning.

Projects

Stock Volatility predictor using MAEC Dataset

Natural Language Processing

[GITHUB]

- Predicting the Stock volatility after its earning call. Dataset contains transcript of the speech given and audio file during the earning call meeting. Text Encoder (BERT) and Audio Encoder was used in the Model. Platform used: Tensorflow

Playground

Computer Vision

[GITHUB]

- Major contributor to a python library consisting of pipelines for visual analysis of different sports like badminton, football and cricket using Computer Vision and Deep Learning. Platform used- PyTorch

Anime Face Generator

Computer Vision

[GITHUB]

- Trained a DC-GAN that was used to generate random Anime Character faces using a defined dataset. Platform used- PyTorch

Ablation Cam Research paper implementation

Computer Vision

[GITHUB]

- Ablation cam is a paper proposed by the authors : S. Desai and H. G.Ramaswamy as an alternative and an improved version of the current SOTA gradcam.Platform used: Tensorflow

Stock Price Predictor

Time Series

[GITHUB]

- Predicting the closing price of a stock using LSTM and Time-Series Techniques. Platform used:Tensorflow

Brain MRI Segmentation

Computer Vision

[GITHUB]

- Performed a Segmentation task on kaggle dataset of images of Brain MRI. The model used was a U-net. Platform used : Tensorflow

Training a Siamese network for One-Shot Classification

Machine Learning

[GITHUB]

- Purpose of code was to train a model on Omniglot dataset using Oneshot classifier and transfer learning on MNIST dataset. Platform used : PyTorch

Skills

- **Languages:** Python, C++, JAVA, SQL, R
- **Frameworks:** PyTorch, TensorFlow, Keras, Scikit, FastAI
- **Tools:** GIT, MySQL
- **Libraries:** Matplotlib, Numpy, Pandas, BeautifulSoup
- **Soft Skills:** Leadership, Writing, Time Management

Course Work

- **Academic:** Data structures and Algorithms, Database Management Systems, Optimization, Computer Programming, Linear Algebra, Calculus, Probability Statistics, Logic in CS, Discrete Maths for CS, Object oriented programming
- **Online:** Tensorflow Specialization, Deep-Learning.AI specialization, CS231n Stanford Computer Vision, Data Science in Python and Visualization, R programming.

Committees

Society for Artificial Intelligence and Deep Learning

BITS-Goa

CORE MEMBER

- A core member of the AI group of BITS-Goa, whose main aim is to spread knowledge and learning related to Machine Learning to students. We as a group host various sessions, lectures and coding events in many domains of Deep Learning

Language Research Group

BITS-Goa

CORE MEMBER

- Core member in a group of students involved in research in Natural Language processing field. Regular brain-storming sessions are conducted where new concepts in this field are discussed and research papers are presented to remain up-to date with new developments

Student Mentor

BITS-Goa

PMP MENTOR

- Mentored newly admitted students on campus to get accustomed to campus environment and guided them in their academically throughout their first year

Member of Placement Unit

BITS-Goa

CORE MEMBER

- Contributed to the Placement unit of the campus by facilitating the placement process for over 1000+ students.

Extra-Curricular Activities

- **Sports:** Karate black belt - District level Medalist in Kumite , Swimming , Squash