Abhinav Jindal

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EDUCATION

University of Southern California (USC)

Master of Science, Computer Science

Los Angeles, United States

Indian Institute of Technology (IIT), Ropar

July 2016 - May 2020

Aug 2022 - Present

Bachelor of Technology, Computer Science

Punjab, India

- CGPA: 9.05/10 (amongst top 10 students)
- Relevant Coursework: Machine Learning, Computer Vision, Artificial Intelligence, Multimedia Systems, Image Analysis, Data Structures, Algorithms, Databases, Operating Systems, Computer Networks, Probability Theory, Linear Algebra

EXPERIENCE

Schrödinger Dec 2021 - August 2022

Developer 1 Hyderabad, India

- Improved end-to-end deployment of LiveDesign Learning, an interface between LiveDesign and machine learning models.
- Developed various gadgets from scratch and their required backend APIs.
- Tools used: Python, Django, ReactJs, TypeScript, Java, Docker, Kubernetes

D.E. Shaw June 2020 - Nov 2021

Associate Developer

Hyderabad, India

- Engineering Owner of **Admin Panel**, worked on improving its tech stack and overall development experience.
- Tools used: Python, Django, ReactJs, TypeScript, Java

Linkbal May 2019 – July 2019

Data Science Intern

Tokyo, Japan

- Worked on modeling Event Cancellation Prediction and improve the event ranking order according to likelihood of success.
- Tools used: Python, Jupyter Notebook

PROJECTS

Medical Segmentation Decathlon

- Worked on modeling single 3D image segmentation across different tasks and adapting to unseen task without annotations.
- Trained U-NET FCN-based model along with 3D image processing techniques, producing results comparable to state-of-the-art.

Multimodal Learning for Audio-Video Compatibility

- Proposed an approach for predicting compatibility order of YouTube videos to an audio song based on a similarity measure.
- Given an audio and a video, the algorithm extracts various features like emotions, transitions, pace, etc., and measures similarity between these features to find the compatibility order. The algorithm was evaluated using 'number of views' as a metric.

Demosaicing

- Full color image reconstruction from incomplete color samples output from an image sensor overlaid with a CFA.
- Compared various algorithms like NEDI, Kimmel and LMMSE using the PSNR metric.

SKILLS

Languages: Python, Java, Django, React, JavaScript, TypeScript, Docker, PHP, HTML/CSS, PostgreSQL, MySQL

Packages: Pandas, Keras, Tensorflow, Scikit-learn, NumPy, OpenCV

Tools: Jupyter, Colab, MatLab, git, LATEX, Microsoft Office

ACHIEVEMENTS

- Merit Scholarship at IIT Ropar for securing a rank under 1500 in JEE Advanced
- AIR-1343 in JEE Advanced (99.91 percentile) in top 0.2% shortlisted candidates (total 1.5 million applicants)
- State Topper in JEE Mains (AIR-2405, 99.83 percentile)