Abhinav Jindal

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EXPERIENCE

SCHRÖDINGER | DEVELOPER 1

Dec 2021 - Aug 2022 | Hyderabad, India

- Developed data pre-processing, computational and visualization tools to accelerate drug discovery and material science.
- Improved end-to-end pipeline of LDLearning, an interface between LiveDesign platform and machine learning models.

D.E. SHAW | ASSOCIATE DEVELOPER

June 2020 - Nov 2021 | Hyderabad, India

- Engineering Owner of Admin Panel, worked on improving tech stack and overall development experience.
- Incorporated JWT authentication, SSO support in microservices, and other ACL related improvements.

LINKBAL | DATA SCIENCE INTERN

May 2019 - July 2019 | Tokyo, Japan

- Worked on modeling Event Cancellation Prediction and improve the event ranking order according to likelihood of success.
- Analysed features in existing past data and designed prediction models using CatBoost and neural networks.

PROJECTS

MEDICAL SEGMENTATION DECATHLON

Aug 2019 - Apr 2020

- 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

Sept 2019 - Dec. 2019

- 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

Feb. 2018 - Apr 2018

- 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.

ACHIEVEMENTS

- Merit Scholarship at IIT Ropar for securing an AIR-1343 (99.91 percentile) in IIT-JEE exam and State Topper in JEE Mains.
- Certificate of participation in Inter-IIT Tech Meet (rank 4/22).
- Won CTF prize at Schrödinger for finding a crucial ACL leak.

EDUCATION

UNIVERSITY OF SOUTHERN **CALIFORNIA, LOS ANGELES**

MASTER OF SCIENCE, COMPUTER SCIENCE August 2022 - May 2024

IIT, ROPAR

BACHELOR OF TECHNOLOGY. COMPUTER SCIENCE July 2016 - May 2020 CGPA: 9.05 / 10.0 (amongst top 10 students)

SKILLS

PROGRAMMING

Python, Java, C/C++, Django, React, JavaScript, TypeScript, Docker, PHP, HTML/CSS, PostgreSql, MySQL, Kubernetes

PACKAGES

Keras, Tensorflow, OpenCV

TOOLS

Jupyter Notebook, Colab, MatLab, git, LATEX, Microsoft Office

COURSEWORK

GRADUATE

Analysis of Algorithms **Database Systems**

UNDERGRADUATE

Computer Vision Artificial Intelligence Machine Learning Multimedia Systems **Image Analysis Data Structures** Algorithms **Databases Operating Systems** Computer Networks **Probability Theory** Linear Algebra

LINKS

Github:// AbhinavJindl LinkedIn:// AbhinavJindI Webpage://abhinavjindl.github.io