Jayant Duneja

Upcoming MS in CS Student
at CU Boulder

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Portfolio: **Jayant-Duneja**

Education

Aug '23 – May'25
MS IN COMPUTER SCIENCE
University of Colorado, Boulder

Aug '18 – May '22
B.TECH(HONORS) IN ELECTRONICS
AND COMMUNICATION
IIIT Hyderabad
CGPA : 8.86/10

Activities

Aug '21 – Nov '21
Teaching Assistant
Digital Image Processing

Publications

English-Hinglish : An MT approach for translation of code mixed data
WMT '22
doi: `https://doi.org/10.48550/arXiv.2210.12215`

Skills

PROGRAMMING LANGUAGES
Python, Java, C/C++
Javascript, Matlab

FRAMEWORKS
SpringBoot, Node.js, React.js
OpenCV, Numpy

DEVELOPMENT TOOLS
Kubernetes, Docker, Git, Sonarqube
Google PubSub, Apache Pulsar,
Concord, Looper, Linux, GCP

PLATFORMS
Azure Data Factory, Airflow, Splunk

TECHNICAL SKILLS
Machine Learning, Deep-Learning,
Neural Networks, Computer Vision

Experience

July '22 – July '23   **Walmart Global Tech India**   **Software Engineer II**
- Developed an event-driven architecture for data pipelines using Java, SpringBoot and Google PubSub. Helped automate ∼75 workflows with the help of this architecture. Added unit tests and logic using technologies like Junit and Sonarqube
- Designed and implemented pipelines within Azure Data Factory to facilitate the simulation of ETL (Extract, Transform, Load) processes.

May '21 – July '21   **Walmart Global Tech India**   **SWE Intern**
- Worked in the Customer Experience Team that focuses on providing a one stop solution to business for transaction related communication across all channels.
- Developed and tested a Command Line Interface tool in Python to reduce lookup time and automate the examination of error logs on Splunk Dashboard with the help of API Calls; Was awarded with PPO based on my performance

Jan '22 – Oct '22   **CVIT, IIIT-H**   **Undergraduate Researcher**
- Improving the pipeline for generating bounding boxes of MeronymNet, a controllable multi-category object generation model using Computer Vision Techniques.
- Conducted various experiments on the model by altering the existing structure of the model, introducing new losses, and tuning various hyper-parameters to obtain better accuracies.

Projects

Feb '22   **Large Prime Generator**   **Distributed Systems**
Implemented prime number identifier by creating a server for computation and a dynamic set of workers to test primality using the Rabin-Miller test and multi-processing library in Python.

Mar '21   **Image Style Transfer**   **Computer Vision**
Transferring the style of a reference/style image in one domain to another image, to 'paint' the input image in the style of the reference image, using Deep Learning.

Oct '20   **Manga Colorization**   **Digital Image Processing**
Implemented a novel colorization technique that propagates color over regions exhibiting pattern-continuity and intensity continuity for manga comics using Python, OpenCV and Numpy

Achievements

2018   **All India Rank 1468**   **JEE Main**
Amongst Top 0.15% all over India in the Joint Entrance Examination for Engineering.

2019, 2021   **Dean's Merit List**   **IIIT-Hyderabad**
Secured a rank in the Top 10% in the batch in Spring 2019, Spring 2021 and in the Top 20% in Monsoon 2021 Semesters.