Jayant Duneja

Upcoming MS in CS Student
at CU Boulder

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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.