

Kundan Kumar

Software Engineer

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EXPERIENCE

JP MORGAN & COMPANY | ANALYST

Aug 2020 - Current | Bengaluru, India

- Implemented a full fledged pipeline & ETL process to consume Fund Administrator data feeds and expose it through Graph QL services.
- Added real time notifications to downstream system using kafka, data availability and staleness reports.
- Designed & built a streamlined workflow to automate approvals & external payment emails for fund expenses.
- Developed dashboard UI to manage workflow reference data and control logic

JP MORGAN & COMPANY | SOFTWARE DEVELOPMENT INTERN

May 2019 - July 2019 | Bengaluru, India

- Developed web application that generates report of performance parameters to enhance Gauss models
- Worked on flask backed REST APIs Interface and optimized the complex calculation of parameters
- Wrote unittest using pytest to improve the code coverage of API
- Deployed application on private cloud and created a CI/CD pipeline using Jenkins

IMAGE COLORIZATION | MACHINE VISION LAB

May 2018 - July 2018 | Roorkee, India

- GrayScale Image Colorization of low-resolution images using a Conditional DCGAN in PyTorch
- Utilized $L^*a^*b^*$ color space for minimization of color and brightness fluctuations.
- Used L2-Regularization along with Adversarial Loss to train the model which removes brown-ish hue in resulting image.
- Evaluated and compared results from U-Net (with L1-Regularization), with GANs giving better qualitative results.

PROJECTS

CACHE MEMORY | COURSE PROJECT

2018

- A 64 bit 2-Way Set Associative Cache with write-back and LRU policy.
- Developed a read write data port RAM as the main memory for cache and linked the cache module to it. Xilinx ISE was used for design and simulation.

DEEP LEARNING FOR PHYSICAL LAYER | PYTORCH, COURSE PROJECT

Jan 2019 - April 2019

- Modelled the communication system for a particular channel using DNN.
- Communication system components form an auto-encoder and are jointly optimized in an end-to-end manner.
- Model implemented using PyTorch and results compared to traditional methods.

DEEP CORAL | PYTORCH, SELF PROJECT

April 2018 - May 2018

- Implementation of the paper Deep CORAL, which reduces the performance loss caused by the domain shift of test data from the training data..

SKILLS

PROGRAMMING

JAVA • Python • JavaScript • SQL
• CSS • HTML

LIBRARIES/Frameworks

Spring Boot • React • Microsoft SQL Server • Graph QL • PyTorch

TOOLS/PLATFORMS

Git • Control M • Kubernetes • Splunk
• Cloud Foundry • Jenkins • Kafka

EDUCATION

INDIAN INSTITUTE OF INDIA ROORKEE

B. TECH IN ELECTRONICS & COMMUNICATION
ENGINEERING

July 2016 - May 2020 | Roorkee, India

Cum. GPA: 7.65

COURSEWORK

UNDERGRADUATE

- Object Oriented Programming
- Computer Architecture
- Data Structures
- Probability & Statistics
- Digital Logic Design

E-LEARNING

- Probability | Stats 110, Harvard
- Neural Networks | CS231n, Stanford
- Deep Learning | 11-785, CMU
- Operating Systems | NPTEL
- AWS Fundamentals | AWS

ACADEMIC ACHIEVEMENTS

- 2019 - India rank 1 in Operating System Fundamentals course by NPTEL
- 2016 - Recipient of prestigious KVPY Scholarship by Dept. of Sciences, India
- 2014 - State Rank - 42 in NTSE

EXTRACURRICULAR

- Team Member | Models & Robotics Section
- Organizer & Web Developer | TedX IIT Roorkee
- Co-ordinator | Thomso