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EDUCATION

Maharaja Agrasen Institute of Technology

Bachelor of Technology (CSE) | 7.92 CGPA

Delhi, India

Aug. 2016 – May 2020

PROFESSIONAL EXPERIENCE

Episource LLC

Associate Data Scientist

Chennai, India

July 2020 – Present

- Slashed the processing time from days to an hour by building a complete automated pipeline to generate patients profiles for HRA along with model deployment on AWS and GitHub CI/CD pipeline.
- Collaborated in the in-house development of Datalake warehouse using PySpark. This helped to ensure the data integrity and correctness in various verticals of business where it is being used.
- Analyzed the HRA and Telehealth services thus reducing the cost incurred, operation optimization, and managed the planning & deployment of design and procedures for weekly metric reports. The analysis helped in taking major business decisions to improve the processes.

Data Science Intern

Jan. 2020 - June 2020

- Improved the contact rate for OCs by 30% to non-approachable customers by developing an automated pipeline to mine historical data and find relevant contact information for upcoming/ongoing projects.
- Built a machine learning model that can predict the outreach consultant headcount for an incoming project.

Humonics Global

Data Science Intern

Gurugram, India

June 2019 – July 2019

- Researched and implemented object-detection DL models & data pipeline to automate Car Insurance Claims. The new model improved the IOU score by 10%. The model was then being deployed on AWS batch service.

PupilMesh Pvt LTD.

Computer Vision Intern

Remote

Mar. 2019 – May 2019

- Computer vision oriented R&D. Created Vehicle Detection and Tracking for real-time systems. The project was aimed to track vehicles on an embedded chip.

PROJECTS

PyTorch Lightning (Open Source) | Python, Pytorch, Git | [Link](#)

June 2020 – Present

- A lightweight PyTorch wrapper for high-performance AI research. Working as a core maintainer, fixing bugs and adding new features.

TVmodels | Python, Pytorch, Git | [Link](#)

June 2019 – July 2019

- Python implementation of various vision models. They are readily available for use as a PyPI package.

Neural Machine translation | Python, Tensorflow, Git | [Link](#)

Sep. 2018 – Dec. 2018

- Implementation of different attention-based machine translation algorithms using the seq-seq networks.

TECHNICAL SKILLS

Languages: Python, SQL, Bash, C/C++

Frameworks/Libraries: Pytorch, Pandas, NumPy, Matplotlib, Seaborn, Tensorflow, PySpark, Scikit-learn, LightGBM

Developer Tools: Jupyter, Git, Docker, AWS, VS Code

ACHIEVEMENTS

- Top 3% out of 3,115 teams in Kaggle's Intruder Detection through Webpage Session Tracking.
- Ranked 40 out of 1,600 participants in mlcourse.ai 2019 session.
- Top 10% out of 4,127 teams in Kaggle's Elo Merchant Recommendation Challenge.
- Top 12% out of 2,038 teams in Kaggle's NFL Big Data Bowl Challenge.
- Kaggle notebooks expert (top 1% out of 166,000 members).

PUBLICATIONS

- Gupta, R. and Sharma, A. Super-Resolution using GANs for Medical Imaging *Procedia Computer Science* 173 (2020): 28-35. | [Link](#)