RAJAT TRIPATHI

CONTACT

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TOOLS

Pytorch, Keras, Kubernetes, Openshift, Prometheus, ELK stack, Spring, Hibernate, Django, WildFly

LANGUAGES

Python, Java, Rust, JavaScript

PLATFORMS

GCP (Compute Engine,Kubeflow)
AWS (EC2,S3)

EDUCATION

MASTER OF SCIENCE

Artificial Intelligence
Boston University
August 2019-January 2021
CGPA- 3.71

BACHELOR OF TECHNOLOGY

Computer Science
Manipal University
2013 – 2017
CGPA-3.7

WORK EXPERIENCE

BU Spark!   Boston,MA
Machine Learning Project Manager   Sept. 2019 - Dec. 2020

- Led **10+** ML/Data Science projects for Govt Offices,State Reps,NGos & research.
- **Data collection** from web scraping, **creating datasets** by aggregating sources, data processing using **ELK** (on **EC2**) . Worked on model development with **scikit-learn, Pytorch** & **Keras.**
- Served some models via **Flask** and **GCP(Compute Engine).**

Red Hat   Boston,MA
AIOps Intern   May 2020 - Aug. 2020

- Created end to end BERT based sentiment analysis pipeline on proprietary data and public data supplemented with interpretability models from **IntrepretML.**
- Worked with the team on deployment pipelines via **OpenShift** ,**MLflow** and standardizing ML workflows.
- Measured usage patterns and reach of ML projects via **JupyterHub** and server usage using **Grafana** and **Prometheus**.

Udacity   Remote
Computer Vision Mentor   Feb. 2019 - Aug. 2020

- Mentored more than **60 students** across the globe for Udacity's Computer Vision program on topics like **OpenCV**, **CNNs, LSTMs, Attention, YOLO** &, **SLAM.**
- Reviewed and helped with the following projects : Facial Keypoint Detection,Caption generation from Images and Landmark Detection .

Amadeus   Bangalore,India
Software Engineer   Nov. 2017 - June 2019

- Worked in the platform engineering department (Amadeus Data Processing) as a backend developer with a team **developing internal CI/CD** tools.
- Helped develop a middleware **Java Spring** application requiring **high availability (99%<)** and managing artifacts that are deployed in the data centres.
- Developed REST APIs handling **10 million +** calls daily with Spring with **1%>** fault.

Software Engineering Intern   Jan. 2017 - June 2017

- Worked with the quality governance team to help build an application lifecycle management web tool which improved efficiency by **30%** or more for QAs.
- Stack: **Angular, Java, Spring, Jasmine, JUnit**

KEY PROJECTS

- **Active Learning with Sentence Error Classification in Machine Translation** : Worked on a proposed research paper using a new criteria for **active learning** selection for **neural machine translation** using **XLM**, **MariantMT** and **BERT** for **error classification**.
- **3D Tumor Segmentation from Lung CT Scan for Malignancy Classification**: Worked at **NIA Lab** on a larger project sponsored by J & J where I was focusing on **3d image segmentation** using Improved Region Growing and modified **U-Net architecture.**
- **Content Aware Image Resizing using Saliency Maps** : Worked on a project which proposes novel automatic content aware image resizing method using **seam carving** and **saliency maps** from feature attention network
- **Segmentation and Classification of Broken Sidewalks** - Worked with the **City of Boston** to identify broken sidewalks using **InceptionV3** by looking at Google Maps images as a part of initiative to make the city more accessible.