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ROHIT KUMAR

Backend Developer

EDUCATION

Integrated Masters of Science in Mathematics and Computing
--2016-2021
Birla Institute of Technology,
Mesra
CGPA : 8.33

SKILLS

- **Languages and tools:** Python, Node.JS
- **Database:** MongoDB
- **API Development:** Flask, Express.JS
- **Container:** Docker
- **Deployment:** Heroku, AWS EC2

ACHIEVEMENTS

- Secured **69**/251 position in data science hackathon during **Cascade cup** 1st Edition.
- Secured a position in **top 3** software teams in Internal Hackathon for **Smart India Hackathon** 2020 ***(Recommended for finals)***.

WORK EXPERIENCE

(i) **Analyst** at **Deloitte USI** *(Sept 2021 - Present)*

- Developed OData **Rest APIs** for Interfaces and other **RI**CE**FW** in SAP ERP BRIM system.
- Developed Reports with selection screen and **backend CRUD** operations on standard tables to automate the tasks of SAP functional consultants, **reducing** human **effort by approx 50%.**
- **Technologies: SQL, SAP ABAP, SAP Gateway**

(ii) **Machine Learning Intern** at **Tensor Matics (Labellerr)** *(Jan 2021 - Jul 2021)*

- Implemented end to end **computer vision** retail use case solutions to add auto annotation functionality to auto label feature on the tool.
- Automated the data gathering process using **scrappers reducing** the **ETA** of project **by 70%,** trained computer vision models using **Detectron2**, scripted **model APIs** and **containerized** them using **Docker** and deployed them on **Amazon EC2** instances **reducing** the Labelling time **by 60%**.
- **Technologies: Python, JavaScript, Flask, Node.Js, Express.Js, Amazon EC2, Docker, Labellerr annotation tool, OpenCV, Tensorflow, Pytorch**

PROJECTS

(i) **Blogging AuthService** ⬈

- A REST API service to expose endpoints that allow users to Register, Login and make authenticated Requests to acess the blog articles.
- **Tech Stack: NodeJS, MongoDb, passport-JWT**

(ii) **SimilarityService** ⬈

- A Rest API that exposes a detection service that detects the similarity between two sentences.
- **Tech Stack: Flask, MongoDb, Docker, Spacy**

(iii) **Body Keypoint detection system (Labellerr Intern project)**

- **Annotated** the **images** (keypoint -dot, bounding box and segmentation) using Labellerr annotation tool.
- Trained **Object detection(faster R-CNN), image segmentation(Mask R-CNN), keypoint detection models(Keypoint R-CNN)** using **Detectron2** on the annotated images.
- Deployed the trained model as **Rest API** using **Flask** on **Amazon EC2** instance. Which reduced the annotation time on the tool to **6.67%.**
- **Tech Stack:Pytorch, Computer Vision, Python, Detectron2 Framework, Flask, Amazon EC2, labellerr annotation tool**

PUBLICATIONS

- **Heart rate variability features from nonlinear cardiac dynamics in identification of diabetes using artificial neural network and support vector machine.** ⬈
  Journal: Biocybernetics and Biomedical Engineering

- **Heart rate variability time domain features in automated prediction of diabetes in rat.** ⬈
  Journal: Physical and Engineering Sciences in Medicine