Saurabh Tandon

I'm a data enthusiast with experience in Python, MySQL, and statistical techniques. My career goal is to continue growing as a data scientist and work on challenging projects that drive business impact. I am eager to apply my skills and knowledge to help companies make smarter decisions and stay ahead of the competition.

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WORK EXPERIENCE

Programmer Analyst

Cognizant Technology Solution

02/2022 - Present *Bangalore, India*

- Completed training on HTML/CSS, MySQL and OpenText Exstream.
- Assigned to the work for a life insurance company to assist the client to manage their documentation by CCM technology using the tool OpenText Exstream.
- Collaborated with team members to troubleshoot technical issues and ensure project success.
- Demonstrated excellent problem-solving and communication skills in a team environment.

PERSONAL PROJECTS

Sign Language Detection ↗

05/2023 - 06/2023

- Developed a Sign Language Detection project utilizing Yolov5 for object detection.
- Implemented a comprehensive pipeline and deployed the code on AWS, leveraging Docker and ECR for containerization and EC2 instances for deployment.
- Managed data and model storage using S3 buckets and created a user interface using Flask.
- Maintained a robust CI/CD pipeline with GitHub actions.
- Showcased expertise in deep learning, cloud deployment, Dockerization, AWS services, and continuous integration in project development and deployment.

Thyroid Detection ↗

01/2023 - 03/2023

- Built a machine learning model to detect thyroid abnormalities using a dataset performing Data Cleaning, Feature Engineering, Preprocessing and Model Building.
- Fine-tuned the model using a Decision Tree with a maximum depth of 8, achieving the highest accuracy.
- Deployed the model on AWS using a Docker image on ECR and running it on EC2 and used GitHub Actions for CI/CD implementation. Used Flask to allow users to interact with the model through webpage.
- Technologies and libraries used are Python, scikit-learn, MongoDB, Pandas, Docker, GitHub Actions, AWS.

Scania APS Fault Detection ↗

12/2022 - 01/2023

- Designed and executed a comprehensive machine learning pipeline for fault detection in Scania APS.
- Utilized XGBoost Classifier with simple imputer with strategy as constant to train model on dataset of APS performance data, resulting in a high prediction accuracy and observing the least cost.
- Created Docker image. Airflow used as scheduled training of the pipeline. Implemented batch prediction to generate predictions at scale in a fast and efficient manner. Used GitHub Actions for CI/CD implementation.
- Technologies and libraries used are Python, scikit-learn, MongoDB, Pandas, Docker, GitHub Actions, Airflow, AWS.

Dashboarding City Bike Dataset ↗

01/2023

- Created a dashboard in Tableau with analyzing many possible parameters to create a relationship among the data.
- Dashboarding included visualization of parameters and added in Storyline for relevant KPIs such as Average Trip Duration by age, year-wise distribution, station-wise performance, location-wise and hour-wise distribution, and user demographics.

SKILLS

Python MySQL Statistics Machine Learning

Deep Learning Computer Vision PyTorch

Tensorflow Keras NLP MS Excel Tableau

EDUCATION

Bachelor of Engineering, Mechanical Engineering

PES Institute of Technology

06/2017- 08/2021 *Bangalore, India*

- Secured an overall CGPA of 8.46.

CERTIFICATIONS and ACHIEVEMENTS

- Full Stack Data Science: iNeuron.
- SQL for Beginners: Learn SQL using MySQL and Database: Udemy.
- Responsive Web Design- HTML+CSS3: Udemy.
- F-22 raptor RC plane using balsa wood and depron sheet: AEROENGINEERS (Engineering Research and Skill Development).
- Team member at ENIGMA (official Automotive club of PES) handling transmission department for BAJA SAE competition.
- Developed RC Drone for agricultural purpose and represented college in different events.
- Won 2nd price in college inter-departmental singing competition.

ADDITIONAL INFORMATION

D.O.B: 13/01/1998

Nationality: Indian

Languages known: English, Hindi.