Lavkush Ramchandra Gupta

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PROFILE

Post-graduate with hands-on Data Science and ML Projects experience. Proficient in programming, problem-solving, and creative thinking. Passionate about designing and implementing impactful models. Actively seeking opportunities to expand professional skills and contribute to a team environment.

EXPERIENCE

Software Engineer - Technology/Data Science 07/2022 – present
SuperZop Mumbai, India

- Successfully implemented **MLOps** principles to streamline the labeling, training jobs, and model deployment on **Azure Cloud**.
- Reduced training costs by **60% through effective utilization of MLOps** practices
- Deployed a trained object detection model on the Nvidia Jetson Nano edge device for **real-time grain impurities analytics**.
- Designed and developed an image segmentation model using advanced **deep learning algorithms** and techniques for grain commodity detection.
- Integrated and optimized the model within a **larger system for automated grain detection** in laboratory settings, achieving exceptional accuracy in detecting and segmenting grain commodities.
- Demonstrated expertise in efficiently **deploying models and leveraging cloud technologies** to enhance performance and scalability.
- Implemented robust quality control measures to ensure accurate labeling and training data for the models.

Data Science/Technology Intern
Superzop (Six Months)

- *Created a **color correction model** using OpenCV to precisely determine the true colors of objects.*
- Created an application that **enhances perspective correction** and obtains bird's eye view of objects
- Improved object detection and dimension measurement accuracy by 5% through the implementation of the above-mentioned techniques.

Deep Learning Intern 09/2021 – 11/2021
Helppr.ai Gurgaon, India

- Developed high-accuracy text classification models for 11 UPSC subjects using Distil BERT.
- Created an image super resolution model based on SRGAN, improving low-resolution images.
- Achieved 95-98% accuracy in various classification models through fine-tuning and error analysis.
- Surpassed organization's goals ahead of schedule with 18% accuracy improvement over previous models.

EDUCATION

MSc in Computer Science with a Specialization in Data Science 05/2021
UDCS, University of Mumbai, Mumbai, India Mumbai, India
Courses: Python Programming, Statistics, Data Analysis & Visualization, Artificial Intelligence and Machine Learning, SQL & Analytics, Databases Technology, Data Modeling, Research Methodology and Publishing

Highlights: 800+ hours of coursework, 10 coding assignments, 3 projects (Web scraping, EDA, ML)

MSc in Physics 05/2020
NES Ratnam College of Art Science and Commerce. (Affiliated to University of Mumbai) Mumbai, India
(GPA: 8.50/10)

SKILLS

- Languages : Python, SQL, R.
- Databases : MySQL, Basic knowledge in Mongo DB, Cassandra, IBM Cloudant - A NoSQL DBaaS
- Cloud Technologies : Azure Machine Learning Studio, Amazon Cloud Services (AWS)
- Deep Learning Frameworks : PyTorch, Tensorflow, Scikit-learn
- Library : Pandas, Numpy, Matplotlib, Seaborn, Sci-kit, Beautiful Soup, RASA for Chatbot, Selenium for Web Scraping, NLTK, Streamlit, Flask.
- Other Skills : Presentation, Excel, Tableau, Git, R.

LANGUAGES

English ●●●●○

Hindi ●●●●●

Marathi ●●○○○

COURSES AND CERTIFICATES

- AWS Practical Data Science Specialization
- Probability and Statistics: To p or not to p?
- Machine Learning
- Python (Greyatom)
- Machine Learning Engineering for Production (MLOps) Specialization
- Deep Learning Specialization