YUVRAJ SHIVAJI DHEPE

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Personal-Projects: https://github.com/Yuvraj-Dhepe/Projects
GitHub: https://github.com/Yuvraj-Dhepe

Education

10/2022 – Present	**Master Studies Of Data Science** *University of Potsdam, Potsdam, Germany* • **Focus areas:** Applied Machine Learning, Deep Learning, Reinforcement Learning, Data Visualization • **Expected graduation:** 07/2024
07/2018 – 05/2022	**Bachelor of Technology - Computer Science and Systems Engineering** *Kalinga Institute of Industrial Technology University, Bhubaneshwar, India* • **Focus areas:** Computer Architecture, Big Data, Operating Systems, DBMS, SQL, Mathematics, Probability & Statistics, Computer Networks, Cloud Computing • **Bachelor's Thesis**: Pneumonia Detection using Computer Vision and Deep Learning • **Final Grade: 1.26/4.00** (1- highest, 4-lowest)

Project Experience

06/2023	**US-Accidents (2016-2023) Severity Prediction Project** **Currently Working on building simple web-app** predicting severity of an accident given the environment details. Until now Project work included following tasks: • Performed **EDA & ETL** on **7 million** Accident Data Instances • **Handled and cleaned the huge dataset** • **Trained and Compared** Various **Logistic Regression Algorithms** on processed dataset **Tools & Libraries Used:** Git, Kaggle, Sklearn, Python, Pandas, Numpy, Matplotlib, Seaborn **Project:** https://github.com/Yuvraj-Dhepe/Projects/tree/main/US-Accidents-Project
05/2023	**Rooftop Classification Image Segmentation Project** **Experienced the work on real-world rooftop segmentation problem,** with interesting challenge to use only **25 images and come up with a good model** • Came up with an efficient solution by making use **Transfer Learning & Data Augmentation Techniques** • Worked on **4 Image Segmentation models,** 2 of which were trained from **scratch (CNN, Unet)** and rest 2 based on Transfer learning **(Vgg16+Unet, MobileNetV2+Unet)** • **Achieved best segmentation results with pre-trained VGG16** **Tools & Libraries Used:** Tensorflow**,** Pytorch**,** Python, Sklearn, Pandas, Numpy, Matplotlib **Project:** https://github.com/Yuvraj-Dhepe/Projects/tree/main/Rooftop_Classification_Project
04/2023	**Student Performance Prediction End to End ML Project** **Experienced the work of an End-to-end ML pipeline** from data collection, EDA, to building models and making them live via CI/CD Integration • **Developed a live web-app** of the regression analysis on dataset that predicts Math scores of students with **88% accuracy** • **Work can be further optimized** to reach 99% accuracy by feature engineering • Worked with **AWS & Docker** to gain **hands-on experience with CI/CD Pipelines** **Tools & Libraries Used:** Git, AWS, Docker, Python, Sklearn, Pandas, Numpy, Matplotlib, Seaborn **Project:** https://github.com/Yuvraj-Dhepe/ML_Web_Project
01/2021 – 02/2022	**Minor & Major Projects:** *University Research Assistant Projects* • **Deep Learning Major Project**: Achieved **92.46% accuracy on Pneumonia dataset** via Applied Optic Net Model, Coauthored comparative research paper with 5-member team • **SLR Minor Project:** Built a sign language project using OpenCV **achieving 95% accuracy, implementing CNN and RNN models** on **ASL video sequences**

Volunteering

05/2023 – Present	**ReDI School Of Digital Integration** • **Teaching Python & Micro-bit** Programming as an Assistant teacher on Weekends • **Planning engaging learning activities** for children during sessions
07/2019 – 06/2022	**National Social Service KIIT BBSR** • As a student volunteer at an orphanage, I spent quality time with children, and learning the power of **Human connection and importance of giving back to community** • Hosted small group games, teaching & storytelling sessions for kids

Skills

Data Analysis & Manipulation:

Python (Very Good) | Numpy (Very Good) | Jupyter Notebok (Very Good) | Feature Engineering (Very Good) | R (Good) | Advanced Excel (Very Good) | Pandas (Very Good) | EDA (Very Good) | SQL (Very Good) | Statistical Analysis (Very Good)

AI & ML:

Re-enforcement Learning (Good) | Deep Learning (Very Good) | Machine Learning (Very Good)

DevOps & Cloud Computing:

Git (Very Good) | Amazon Web Services (Good) | Docker (Good)

Data Viz & Communication:

Power BI (Very Good) | Data Visualization (Good) | Communication (Very Good) | Tableau (Good) | Storytelling (Very Good)

Certificates

Python Programmer Bootcamp
SQL
Data Cleaning and Preprocessing with Pandas & Numpy
Advanced Microsoft Excel
Tableau with SQL
Power BI
Statistics
Feature Engineering
Machine Learning
Deep Learning
The Complete Data Visualization Course

Languages

- English: Fluent C1
- Hindi: Native C2
- Marathi: Mother tongue
- German: Learning A1