

# YUVRAJ SHIVAJI DHEPE

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Personal-Projects: <https://github.com/Yuvraj-Dhepe/Projects>

GitHub: <https://github.com/Yuvraj-Dhepe>



## Experience

01/2021 – 02/2022

### Student Research Assistant

Kalinga Institute of Industrial Technology University, Bhubaneshwar, India

- Co-authored **comparative research paper** on **Pneumonia Detection** using Deep Learning with 5-member team
  - Achieved **92.46% accuracy** on Pneumonia dataset via Applied Optic Net Model
- Built a Sign Language Recognition project using OpenCV
  - Achieved **95% accuracy**, implementing CNN, RNN models on American Sign Language video sequences

## 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 Project EDA

Project work included following tasks:

- Performed **EDA & ETL** on **7 million** Accident Data Instances
- Revealed Crucial insights, like **accident severity distribution**, accidents distribution **over states**, cities, **Weekdays**, **Weather Conditions**
- Extended the **Data Analysis** using building **Predictive ML models**

Tools & Libraries Used: Git, Kaggle Kernels, Sklearn, Python, Pandas, Numpy, Matplotlib, Seaborn

Project: <https://github.com/Yuvraj-Dhepe/Projects/tree/main/US-Accidents-Project>

04/2023

### Student Performance Prediction End to End ML Project

Project included steps of **data collection**, **EDA**, created **meaningful Data Viz's** to gain insights and work was further extended by doing regression analysis on the **1K students**

- **Used Viz's** to get insights on how students' performance is affected via **parent's education levels**, students' **socio-economic status**, **gender** and other factors
- Used insights to perform **feature engineering** on dataset and build meaningful features that can help in machine learning
- 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](https://github.com/Yuvraj-Dhepe/ML_Web_Project)

03/2023	<p><b>Youtube API Web-Scraping Data Analysis Project</b></p> <p>Scraped 9000 videos via Youtube API on Spiritual Youtube Channels to gain different insights</p> <ul style="list-style-type: none"> <li>• What makes a video trending is it the <b>number of likes</b>, is it the <b>video duration</b>, is it the <b>title length</b></li> <li>• Made <b>Word Clouds</b> consisting 1000's of words from <b>Comments &amp; Video Titles</b>, to know what are commonly used words by the <b>Viewers &amp; Creators</b></li> <li>• Experienced the utilization of Web-API</li> </ul> <p><b>Tools &amp; Libraries Used:</b> Git, Python, Pandas, Numpy, Matplotlib, Seaborn, Jupyter Notebook</p> <p><b>Project:</b> <a href="https://yuvraj-dhepe.github.io/DataBlog_V1/docs/projects/Youtube_API_EDA.html">https://yuvraj-dhepe.github.io/DataBlog_V1/docs/projects/Youtube_API_EDA.html</a></p>
03/2023	<p><b>Power BI Sales Insight Dashboard Project</b></p> <p>Built a professional Power BI dashboard using 1000's of Sales Data Points through ETL concepts</p> <ul style="list-style-type: none"> <li>• Performed <b>Data Cleaning and Data Merging with SQL &amp; Power BI</b></li> <li>• Created <b>Dashboard using PowerBI</b></li> <li>• Documented all the <b>Insights</b> from the Data</li> </ul> <p><b>Tools &amp; Libraries Used:</b> Python, Jupyter Notebook, PowerBI, MySQL</p> <p><b>Project:</b> <a href="https://yuvraj-dhepe.github.io/DataBlog_V1/docs/projects/B1_Sales_Insights.html">https://yuvraj-dhepe.github.io/DataBlog_V1/docs/projects/B1_Sales_Insights.html</a></p>

## Volunteering

05/2023 – Present	<p><b>ReDI School Of Digital Integration</b></p> <ul style="list-style-type: none"> <li>• <b>Teaching Python &amp; Micro-bit Programming</b> as an Assistant teacher on Weekends</li> <li>• <b>Planning engaging learning activities</b> for children during sessions</li> </ul>
07/2019 – 06/2022	<p><b>National Social Service KIIT BBSR</b></p> <ul style="list-style-type: none"> <li>• As a student volunteer at an orphanage, I spent quality time with children, and learning the power of <b>Human connection and importance of giving back to community</b></li> <li>• Hosted small group games, teaching &amp; storytelling sessions for kids</li> </ul>

## 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) | Tableau (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

