

# UTKARSH AVADHUT DABHOLKAR

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Actively looking for Full Time opportunities and Co-op for Spring'24.

## Education

### Master of Science in Data Science

Aug 2022 - May 2024

*Rochester Institute of Technology, Rochester, NY*

GPA: 3.7/4

**Relevant Coursework:** Foundations of Data Science and Analytics, Applied Statistics, Database Design and Implementation, Visual Analytics, Software Engineering For Data Science, NLP, NoSQL

### Bachelor of Technology in Computer Science and Engineering

Aug 2017 - May 2021

*Manipal University Jaipur*

GPA: 7.0/10.0

## Competencies

- **Programming:** Python, Java, R, MySQL, SQL, HTML, C, solidity, Mongodb, Xml.
- **Data Visualization:** Matplotlib, Seaborn, Tableau, PowerBi, Dash, Plotly, Shiny, ggplot2.
- **Data Analysis:** Pandas, NumPy, MsExcel.
- **Data Science Frameworks:** TensorFlow, PyTorch, Sklearn, py-caret, Neo4js, spark
- **AWS Tools:** AWS IoT Core, AWS Quicksight, AWS Redshift, AWS SageMaker, AWS Lambda Functions, AWS S3 Buckets.
- **Tools:** Git, Latex, Tableau, R-studios, Jupyter Notebook, Linux.

## Professional Experience

### Graduate Teaching Assistant

Jul 2023 - Present

*Rochester Institute of Technology, Rochester, New York*

- Led the development and delivery of in-class IoT data analytics labs.
- Mentored students on data analysis and machine learning concepts applied to IoT datasets.

### Research Assistant

Jul 2020 – Dec 2021

*Manipal University Jaipur, Jaipur, India*

- Created a blockchain-based credit transfer ecosystem for schools and colleges, reducing processing time by 30%.
- Designed and implemented a novel model architecture to improve efficiency.

### Data Science Summer Intern

Apr 2018 – Jul 2018

*Verzeo, Bangalore, India*

- Uncovered actionable insights from client data using Python and Tableau, enhancing data-driven decision-making by 20%.
- Optimized ML workflows using Pycaret and Dash, improving model accuracy by 15% and reducing development time.
- Used SQL to modify and extract data required, enhancing data accessibility and efficiency.

## Projects

### Visualizing the Residents of Engagement Ohio (Data Visualization, Plotly Dash)

Mar 2023

- Built an interactive dashboard to explore demographics and daily routines of 1000 residents using Plotly Dash.
- Showcased population movement patterns using map visualization and time-based animation, providing valuable insights into daily routines and behavior.
- Uncovered correlations between education, job skills, and income levels, emphasizing the importance of education and skill development in achieving higher income levels.

### Predicting Customer Churn for a Telecommunications Company (Data Analytics, SQL, Python)

Dec 2022

- Utilized Python/R for data cleaning, exploratory data analysis, and model building, resulting in a churn prediction model with an accuracy of 80%.
- Identified the top three factors that drive customer churn and provided actionable insights for retention strategies.
- Validated the model using performance metrics such as precision (0.75), recall (0.82), and F1-score (0.78), ensuring its effectiveness in predicting customer churn.

### Image Forgery Detection using Metadata and Deep Learning (Python, CNN)

Dec 2021

- Reduced false positive rates by 20% and achieved a precision score of 85% in image forgery detection using a multi-level model.
- Trained a CNN model on a 10k image dataset, improving detection accuracy.
- Modified the input layer of MobileNetv2 to increase detection sensitivity for YCbCr images.

## Publications

### Blockchain Ecosystem for Credit Transfer in Education (Hindawi Journal)

09 Dec 2021

## Certifications

- IBM Data Science specialization [9 courses] including a capstone project.
- DeepLearning.AI Natural Language Processing Specialization [4 courses]