

# Rushikesh Kumbhar

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## Data Science Specialist

### Profile Summary

Certified Data Scientist with IIIT Bangalore and Upgrad, adept at deep learning and Python programming. Holds 10 months of valuable experience as an Analyst at Tata Consultancy Services, specializing in user data analysis and effective problem-solving. Proficient in predictive modeling, data processing, and machine learning, boasting an impressive 2+ years of overall expertise in the Data Science field. Well-versed in Computer Vision, NLP, critical thinking, and problem-solving. Tech savvy, adept at utilizing advanced tools and technologies to develop innovative AI solutions. A creative and analytical thinker, persistent and a strong passion in leveraging data-driven insights to overcome intricate challenges. Possesses excellent communication skills and actively seeks opportunities to contribute to impactful projects that promote data-based decision-making and drive innovation in the industry.

### TECHNICAL SKILLS

**Tools/Languages:** Python, SQL, Tableau, PowerBI, R Language, MS Excel, C Programming, HTML5, Linux, Git, ROS

**Key skills :** Deep Learning, Machine Learning algorithms, Data Analysis, Computer Vision, NLP, Data Visualization, Predictive Modeling, Data Analytics, Problem-Solving and Research, Statistics and Linear Algebra, Applied Mathematics, Data Cleaning, EDA, MLOps

**Libraries :** Numpy, Pandas, Matplotlib, seaborn, Scikit-Learn, Tensorflow, Keras, NLTK, Spacy

**Database & Cloud:** MySQL, AWS EC2, AWS Sagemaker, AWS S3, AWS CodeBuild, AWS CodeDeploy

**API/Frameworks:** Flask, Django

### EDUCATION

Master of Science in Data Science	October 2023 - Present
Liverpool John Moores University	UK
Post Graduate Diploma in Data Science (Deep Learning specialization)	December 2021 - January 2023
IIIT Bangalore & upGrad	Bengaluru, IN
• CGPA : 3.57/4	
Bachelor of Engineering in Mechanical Engineering	August 2017 - March 2020
Sharad Institute of Technology collage of engineering	Kolhapur, IN
• Secured 77.31%	

### PROFESSIONAL EXPERIENCE

Computer Vision Intern	February 2023 - May 2023
Netra AI	Pune, IN
<ul style="list-style-type: none"><li>Involved in <b>Python programing</b>, model building and deployment using <b>Flask</b> in day to day practices.</li><li>Created a custom chatbot with around 95% accuracy using <b>Langchain</b> and <b>NLP</b> techniques, leading to increase 90% customer satisfaction.</li><li>Developed AI solutions for small businesses, effectively optimizing processes and outcomes while achieving significant <b>cost reduction</b>.</li><li>Expertise in <b>YOLO</b>, <b>OpenCV</b>, <b>RCNN</b>, and <b>FRCNN</b> for object detection tasks, with a continuous focus on staying updated with the latest AI and NLP advancements.</li><li>Collaborative, innovative problem solver with project management experience.</li></ul>	
Assistant System Engineer	November 2021 - August 2022
Tata Consultancy Services	Pune, IN
<ul style="list-style-type: none"><li>Specialized in user data analysis using internal tools to gather and assess user information.</li><li>Proficient in running <b>SQL</b> queries to extract valuable insights, interpret data and enable data-driven decision-making across projects.</li><li>Played a vital role in user support, addressing issues promptly and achieving a <b>100% problem resolution rate</b> using internal tools.</li><li>Deepened understanding of user behavior and preferences through customer <b>data processing</b>.</li><li>Utilized data to drive informed business strategies and enhance user experiences.</li></ul>	

## PROJECTS HANDLED

- **Style Transfer using GAN:**

- Built a Generative adversarial model(modified U-Net) which can generate artificial MRI images of different contrast levels from existing MRI scans. Generated new images using CycleGAN.

Project Link: [https://github.com/rushikesh0077/Style\\_Transfer\\_using\\_GAN](https://github.com/rushikesh0077/Style_Transfer_using_GAN)

- **Car number plate detector:**

- Using YOLOv8 and pytesseract detected car number plates and recognized car number using pytesseract.

Project Link: <https://github.com/rushikesh0077/Number-Plate-Detection>

- **Sugarcane disease Detection:**

- Based on previous images of sugarcane diseases detected the type of disease using CNN (VGG net). Project Link: [https://github.com/rushikesh0077/Sugarcan\\_Disease\\_Detection](https://github.com/rushikesh0077/Sugarcan_Disease_Detection)

- **Git repository analyzer:**

- Using git profile link git repository analyzer can read all python codes and detect most technical complex code with its justification using OpenAI API.

Project Link: <https://github.com/rushikesh0077/Git-Analyser>

- **Churn Prediction in Telecom:**

- Based on customer behavior (such as the monthly bill, internet usage, etc.) to predict whether a particular customer will switch to another telecom provider or not using Logistic Regression, Decision tree and Random Forests (i.e. churn or not).

Project Link: [https://github.com/rushikesh0077/Telecom\\_Churn\\_Prediction](https://github.com/rushikesh0077/Telecom_Churn_Prediction)

- **House Price Prediction:**

- Based on previous data predicted house price using linear regression and advanced regression. Project Link: <https://github.com/rushikesh0077/House-price-prediction>

- **Customer Segmentation:**

- Based on customer behavior data segmented customers on frequency, monetary and recense basis using K-means Clustering.

Project Link: <https://github.com/rushikesh0077/Customer-Segmentation-case-study>

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## CERTIFICATIONS

- **Data Science Programming Bootcamp by upgrad.**

- **Python for Computer vision with OpenCV and Deep Learning by Udemy.** | No. UC-1148a68d-57ae-4913-8a65-470bd3bc6bd9

- **ROS2 For Beginners (ROS Foxy, Humble - 2024).** | No. UC-fd8e5324-dca7-4cfe-a4f3-3ec9d16bbf00

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## ACHIEVEMENTS

- **Intern of the month at NetraAI.**

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