

# Soumyadip Bhattacharjya

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🔗 <https://github.com/SoumyaCO>

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## SUMMARY

I am a highly motivated and passionate individual with a strong interest in machine learning, data science, and machine learning engineering roles. I prefer to learn from books rather than videos, as I find them to be more in-depth resources. I am always looking for ways to expand my skill set, and I am a skilled programmer. I am also a calm and even-tempered person. I enjoy watching movies and web series when I need to relax.

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## EXPERIENCE

### Research And Development Intern VYZA SOLUTIONS PVT LTD

October 2023 - Present, India

My Role:

- Assist in the development of AI automation.
- Conduct research on AI, cloud services and automation using python
- Create comprehensive technical documentation, project plans, script reports and process flows.

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## PROJECTS

### Reverse Image Searching

<https://github.com/SoumyaCO/reverse-image-searching>

- Developed a personal project on reverse-image-searching algorithms achieving the ability to search via images to get similar images.
- Researched about the concept and experimented on 8000 images of 100 classes.
- Used transferred learning (ResNet50) to extract features from images and unsupervised learning algorithms to find the similar images.
- Done some optimisation and improved top 5 False Positive rate.

### Rare Mammals in the UK, Analysis

<https://www.kaggle.com/code/soumyadipbhat/geospatial-mapping-of-mammals-habitat-with-folium> • August 2023 - September 2023

Objective: To analyse a mammal atlas dataset from Kaggle to identify insights into the distribution and abundance of rare mammals in the UK.

Methods: Use Pandas to clean and manipulate the data, and to generate insights such as:

- Which state has more mammals?
- Which state shelters the most rare species?
- What are the areas in the map where rare species dwell?

Output: A report or presentation that summarises the insights gained from the analysis. Results: Uncover a total of 83 rare mammal species in the UK with South East England having the highest concentration of mammals. Additionally, identified hotspots where the rare mammals are most abundant and protected.

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## EDUCATION

### Master of Computer Applications - MCA, Information Technology

Techno India University • August 2024

### Bachelor's degree, Physics

University of Calcutta • 2023 • 7.09 CGPA

### Higher Secondary , Pure Science

Sainthia High School • March 2020 • 93%

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## SKILLS

**Technical Skills:** Data Cleaning, Data Visualisation, Data Manipulation, Statistics, Machine Learning, Classification, Regression, Random Forest, Clustering, Ensemble Learning, Boosting, Computer Vision, CNN, Feature Engineering, Deep Learning, Machine Learning System Design, Machine Learning Operation, Modelling, GPU Computing, Transfer Learning

**Soft Skills:** Communication, Analytical, Critical Thinking, Proactive, Adaptable, Self Motivated, Quick Learner, Creative Thinker, Collaborative, Versatile

**Hard Skills:** Python, JavaScript, Numpy, Scipy, Matplotlib, Pandas, Seaborn, Scikit-Learn, Tensorflow, Tensorflow Keras, OpenCV, YOLO, KubeFlow, Tensorflow Extended, TensorFlow Serving, Git, Github, Github Actions, Docker, Kubernetes, Azure Machine Learning, Google Colab, SQL