

ANUSKA ROY

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Education

International Institute of Information Technology, Bangalore

Jan. 2023 – May 2026

Masters by Research in DataScience

3.5/4

Kalinga Institute of Industrial Technology(KIIT)

March. 2017 – May 2021

Bachelor of Technology in Electrical Engineering

9.0/10

Work Experience

Research Scholar

Jan 2023 – present

Research Scholar

Bangalore, Karnataka

- Published a first-authored paper in VISAPP 2025, achieving state-of-the-art accuracy in generalized few-shot semantic segmentation through a novel combination of incremental training and rank-adaptive LoRA fine-tuning.
- Researching point cloud processing and segmentation using few-shot learning techniques.
- Worked with different CNN architectures along with optimizing the parameters of the network to improve the model performance using metrics such as accuracy, precision, recall, and F1 score.

Accenture

May 2021 – Jan 2023

Application Developer

Kolkata, WestBengal

- Developed microservice using .Net core, engaged in the Production support of the application.
- Created a series of test cases in order to cover the maximum functionality of the developed microservices using xUnit Test.
- Developed Windows Services to get automated generated mail reports every day which leads to ease for Business
- Beginner-level DevOps – Code deployment, looking into CICD pipelines
- Knowledge and working experience in Agile Scrum, Actively involved in all Scrum activities - Daily Standup, Sprint Planning, Story Refinements, etc
- Involved in all phases of the life cycle of the project including requirement analysis, development, deployment, and production support

Projects

Generalised Few Shot Semantic Segmentation(GF-Seg) | Pytorch, VSCode

April 2024

- Dense Segmentation of both Base and Novel classes in an image with very few training images
- Improvement from the current SoTA model accuracy in the current literature of GF-Seg by 5 percent

Facial Synthesis using VAEs and Diffusion Models | Pytorch, Jupiter Notebook

February 2024

- Developed a facial synthesis system using Variational Autoencoders (VAEs) and Diffusion Model for generating realistic and diverse facial images.
- Performed a detailed study comparing both the pros and cons of using VAE and diffusion model in facial synthesis

Image Captioning | pytorch, VS Code

March 2023

- Initially Employed CNN network as an image encoder and RNN network as the decoder network for caption generation.
- Used BLEU score and the METEOR Score as a means of quantifying the performance of the models
- Improved the initial baseline model with an attention network for better performance

Technical Skills

Languages: Python

Deep Learning Frameworks: PyTorch, Tensorflow, Keras

Programming Libraries: OpenCV, numpy, pandas, scikit-learn

Data Visualization Tools: Matplotlib, seaborn

Configuration Management: Git, Azure Devops