

Divyayan Dey

Stockholm | divyayanrishi@gmail.com | divyayan@kth.se | +46 764527709

[linkedin.com/in/divyayan-dey-470238189/](https://www.linkedin.com/in/divyayan-dey-470238189/) | github.com/divyayanrishi

Education

KTH Royal Institute of Technology, Master's in Electrical Engineering	Aug 2024 – Jun 2026
<ul style="list-style-type: none">• Specialization: Information and Network Engineering• GPA: 4.19/5.0	
University of Calcutta, Bachelors in Electronics and Communication Engineering	Jul 2017 – Aug 2021
<ul style="list-style-type: none">• GPA: 9.14/10.0• Final Year Dissertation: A Machine Learning Assisted Smart Health Monitoring Console with Signal Quality Assessment Module (<i>with Raspberry Pi and Arduino</i>)	

Professional Experience

Master Thesis Worker, Scania Group AB – Södertälje, Sweden	Jan 2026 – present
<ul style="list-style-type: none">• Designing and training computer vision models for human action temporal segmentation through video understanding• Building systems to model human-object relationships and assembly procedures, in industrial assembly videos• Tools used: PyTorch, Python, AWS EC2/S3, and many more	
AI/ML Intern, Filed AB – Stockholm, Sweden	Jun 2025 – Jul 2025
<ul style="list-style-type: none">• Built ML modules for e-doc text recognition and document checklist generation through OCR & LLM agents• Built LLM wrappers and web UI for user-friendly custom prompting to generate document filebases with as much accuracy as possible• Tools used: Pandas, GPT APIs, PostgreSQL, FastAPI, inngest	
AI/ML Computational Science Analyst, Accenture – Bangalore, India	Sep 2021 – Jul 2024
<ul style="list-style-type: none">• ML-led content production modules for AI-led generation and robotic process automation, involving text processing and metadata extraction, reducing production time from \approx 20 mins to \approx 20 seconds• Computer Vision/Image processing, VLMs(CLIP etc.), text analytics solutions for segmentation & automated QA• Applied Generative AI for text and image content production/manipulation in enterprise products via LLM prompt engineering and model fine-tuning; also piloted LLM assisted financial analysis report generation• Tools used: PyTorch, Pandas, Tensorflow, Scikit-learn, Langchain, OpenCV, GPT APIs, PostgreSQL, Flask, Linux	

Publications

A Single Qubit Quantum Perceptron for OR and XOR Logic	Mar 2022
Chaurasiya R., Divyayan Dey , Rakshit T., Bhattacharyya S. Intelligence Enabled Research. Springer, Singapore, 2022. 133-145. DOI : 10.1007/978-981-19-0489-9_11	

Patents

Generation and Optimization of Output Representation - D22-074-04509-PR-US	2022
Tata S., Chaudhari K., Mathew D., Sridharan S., Guggilla C., Shukla H., Divyayan Dey	

Projects/Research Experience

Authentic Talking Face Video Generation via Deep Learning (2025)	
<ul style="list-style-type: none">• Generated temporal evolution of talking human faces in videos, with good fidelity and high authenticity• Enhanced CNN model performance with enhanced motion and occlusion maps, to enhance LPIPS/DISTS metrics	
Multimarginal Flow Matching with Noisy Interpolants for Prediction (2025)	
<ul style="list-style-type: none">• CNNs for feature extraction from high resolution Whole Slide Images/distributions• Transformers (and ViTs) for feature aggregation, including spatial transcriptomics	

Skills

Programming: Python, Java, MATLAB, C/C++, MS SQL, PostgreSQL, HTML, Flask, Azure DevOps, Git, Docker

Hardware Exposure: Raspberry Pi, Arduino, 8085 Microprocessor