

Md Norul Gofran

Data Scientist

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PROFILE SUMMARY

Recent M.Sc. Data Science graduate specializing in Machine Learning and Reinforcement Learning. Demonstrated expertise in building and evaluating deep RL models in MATLAB for multi-objective optimization. Complemented by 2 years of experience in data analysis and visualization using Python, SQL, and Tableau. Eager to apply advanced analytical skills to solve complex problems and drive data-informed decisions.

SKILLS

Data & ML	Exploratory Data Analysis Statistical Modeling (A/B testing) Machine Learning (NumPy, Pandas, Scikit-learn) Reinforcement Learning (TD3, SAC, AC)		
Programming	Python SQL Matlab	Deep Learning	Pytorch OpenCV
Visualization	Matplotlib, Seaborn, Tableau	AI	Transformers, LLM
Developer Tools	Agile/Scrum, GitHub, Docker	Language	English (Fluent) German (B1)

EDUCATION

MASTER OF SCIENCE, DATA SCIENCE | *Friedrich Alexander University Erlangen-Nürnberg* 2022-2025

Major: Machine Learning **Grade:** 2.7

Specialization Courses: Deep Learning, Pattern Recognition, Pattern Analysis, ML in Signal Processing, ML in Time Series, ML in Finance, Artificial Intelligence I

BACHELOR OF ENGINEERING, COMPUTER ENGINEERING | *Gujarat Technological University* 2016 - 2020

Grade: 7.58/10 (First Class with Distinction)

Specialization Courses: Artificial Intelligence, Big Data Analysis, Data Structures

WORK EXPERIENCE

Student Researcher *Chair of Automatic Control, FAU & Schaeffler Technologies AG & Co. KG* | November, 2024 - July, 2025

- Spearheaded a research project to design and evaluate state-of-the-art, model-free Reinforcement Learning controllers for a complex Vapor-Compression Cycle (VCC) system.
- Validated the TD3 agent's superior performance and stability in solving the multi-objective control problem.
- Authored a comprehensive thesis presenting a comparative analysis of RL agent performance, contributing valuable insights for the development of adaptive, energy-efficient HVAC-R control systems.

- Worked with the R&D Team in the IT Division of Trust Bank Limited, contributing to various research and development tasks related to data analysis and process optimization.
- Utilized Tableau, Matplotlib, and other data visualization tools to analyze and present financial and operational data, aiding decision-making processes.
- Applied Python, NumPy, and Pandas for data manipulation, cleaning, and analysis, ensuring efficient handling of large datasets.
- Assisted in IT-related tasks and received guidance in preparing the internship report, ensuring a structured presentation of findings and insights from the internship period.

PROJECTS

Route Planning for the Visually Impaired Person

2023 - 2024

The "Route Planning for the Visually Impaired" project focuses on developing the Sidewalk Environment Detection System for Assistive NavigaTION (SENSATION). This system aims to enhance the mobility and independence of visually impaired individuals by providing accurate and reliable navigation assistance. Utilizing advanced computer vision and machine learning techniques, the project is implemented entirely in Python.

Spotify-RL-RecSys

2024

This project implements a novel approach to music recommendation using Deep Q-Networks (DQN) to create an intelligent agent that learns from user interactions. Unlike traditional collaborative filtering or content-based methods, this system adapts dynamically to user preferences, capturing their current "musical mood" through reinforcement learning.

HONORS & AWARDS

ICCR Scholarship, Indian Council for Cultural Relation

May, 2016

Awarded the prestigious ICCR Scholarship by the Indian Council for Cultural Relations, a highly competitive grant for pursuing a Bachelor of Engineering based on outstanding academic merit.