



## Experience

### Graduate Research Assistant

October 2024 – May 2025

- Leveraged large language models such as LLaMA 3.1, Mistral, Phi, and DeepSeek on the Snellius HPC cluster to generate personas and evaluate their persuasive capabilities in a convincer-skeptic setting using prompt engineering and fine-tuning while investigating how increased persuasiveness correlates with reinforcement of biases and sycophantic tendencies.

### Software Engineer Intern, ASML – Veldhoven, Netherlands

April 2023 – October 2023

- Developed a Python-PostgreSQL based solution with API integration to automatically terminate long-running background algorithms and implemented a deadlock prevention mechanism for concurrent processes in the IPVD tool.

### Cybersecurity Risk Associate, PWC SDC – Kolkata, India

May 2021 – September 2021

- Collaborated with cross-functional teams to enhance data security by streamlining user access provisioning and deprovisioning, reducing access-related risks, and ensuring compliance through risk assessments and SOX (Sarbanes-Oxley Act) testing.

### Undergraduate Research Assistant

June 2019 – May 2020

- Developed a Multimodal Sentiment Analysis model of Human Speech using 2D- Convolutional Neural Network, published by IEEE Xplore (IRTM'22) and Springer (ICCTA'21) [[Article](#)][[Article](#)].

## Education

### TU Eindhoven

Eindhoven, Netherlands

MSc in Data Science and Artificial Intelligence

2022 - 2025

- Relevant Coursework:** Deep Learning, Machine Learning Engineering, Visual Analytics, Big Data Management, Philosophy and Ethics in AI, Decision making with AI, Knowledge Engineering, Survival Analysis

### University of Engineering and Management

Kolkata, India

Bachelor of Technology in Computer Science and Engineering (GPA: 8.83/10.0)

2017 - 2021

- Relevant Coursework:** Data Structures and Algorithms, Machine Learning with Tensorflow, Deep Learning with Keras, Natural Language Processing, Operating systems

## Projects

### Google Gemini Developer Competition [[Link](#)]

June 2024 – August 2024

- Developed a platform that allows users to connect, share projects and research ideas with varied backgrounds. It uses Gemini LLM at the backend for content recommendation, selection and filtering.

### Data Intelligence Challenge [[Github](#)]

March 2023 – May 2023

- Developed various Deep Reinforcement Learning agent models (DQN, DDQN, and Q-learning.) for pathfinding and autonomous navigation tasks that used a grid-based navigation system. Also designed custom environments and grid configurations.

### IBM Hackathon [[Github](#)]

April 2020

- Received certificate of appreciation at national level in India for developing a multi-state classification model, for categorizing emotional polarity of tweets on COVID-19 pandemic using ANN that functioned in real-time.

## Programming and Technical Skills

**Languages:** Python, C++, C, R, SQL, PySpark, HTML, CSS, Bash

**Framework:** Apache Spark, Keras, Tensorflow, Pytorch, Docker, Dash, Plotly.

**Core Competencies:** Deep Neural Networks, Transfer Learning, Large-Language-models, Data Structures and Algo

## Achievements and Activities

- Got accepted in Stanford Summer Session, Stanford University, California, USA in March 2018
- Best paper award for "[Sentiment Analysis of Human Speech using Convolutional Neural Network](#)" in UEMCOS'21
- Ranked 111th in state of WB in International Informatics Olympiad 2011 by Computer Literacy Foundation, New Delhi.