Letter Of Motivation

Dear Elia Bruni:

I am writing to express my strong interest in advanced methods for multi-agent communication. As an Electronics and Communication Engineering graduate, I am confident that my education, experience, and skills make me a great fit to join the seminar.

Currently, I am working at DFKI on a PORTAL project as a student researcher. In this project, we have built and used a mobile agriculture robot capable of monitoring breeding plots with a set of multiple sensors (RGB, RGB-D, LiDAR, Thermal, and Multispectral Cameras) and processing sensor data toward VR and ML solutions using openCV. Before this, I was working at Samsung (2019–2022) as an automation engineer, where I had to write scripts for automation using Python for testing purposes. Throughout my industry experience, I learned about time management, working under pressure, and completing work within the deadline with good exposure to coding using Python.

During my 1st Semester at the University of Osnabrueck, I have taken courses like Deep Learning for NLP, Cognitive Human-Computer Interaction, and Neuromorphic Computing, which gave me deep insight into Machine learning, broadening my horizons and increasing my interest in its application in various aspects. During my 2nd semester, I took courses like Deep Reinforcement Learning, Machine Learning, and my Study Project, Emergent Behaviors in a Multi-Agent System with Reinforcement Learning, which gave me a better grasp of multi-agent systems.

Emergent behavior is a fascinating and complex field of study. With the increasing prevalence of multiagent systems in fields ranging from robotics to economics, understanding multiagent communication and emergent behavior has become more important than ever. Hence, through this course, I want to deep dive into Multiagent communication and contribute my skills-set to my study project in the best possible way.

I wish to make full use of this opportunity, as the knowledge and experience that I will gain from the advanced method for multi-agent communication will contribute to the technological development of my study project in a better and more efficient way.

Sincerely

Vipra Tyagi