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| **EDUCATION** | | | | |
| **Shanghai University** | | | Sep.2022-present | |
| * **Major**: Computer Science and Technology | Expecting B.Eng. in Jun. 2026 | | | |
| * **Relevant Coursework**: CalculusI,II&III, Linear Algebra, probability & statistics, discrete mathematics, PhysicsI&II, programming language, Data structures, digital logic, principles of computer organization | | | | |
| **RESEARCH EXPERIENCE** | | | | |
| **Machine Learning and Intelligent Computing Laboratory, Shanghai Uni.** | | | Feb.2023-Dec.2023 | |
| *Deep Reinforcement Learning Strategies for Pursuit-Evasion Games in Complex Environments with Obstacles Advisor: Hang Yu* | | | | |
| * Create a reinforcement learning environment simulation using Unity 3D and C#. This simulation includes weather systems, various obstacles, ocean landscapes, and a sensor network. * Develop a reinforcement learning model using Anaconda, Python, PyTorch, and NumPy. Integrate the sensor network from the simulation with this learning model. * Develop and train the reinforcement learning model to perform tasks in a complex environment with multiple obstacles. These tasks include object detection, environment sensing, semantic analysis, and pursuit-evasion tactics. Utilize game theory to refine and optimize the best strategy. * Conduct an analysis of the effects of different features, hyper-parameters, and various sensor combinations. | | | | |
| **PROJECT EXPERIENCE** | | | | |
| **Multiple Machine Learning Projects on Kaggle.com.** | | Sep.2022-Dec.2023 | | |
| * Completed multiple machine learning projects on Kaggle.com, covering a broad range of topics including Classification, Regression, Computer Vision, Pattern Recognition, and Natural Language Processing. * Achieved competitive model performance in the majority of these projects. These projects required skills in Python, Jupyter Notebook, PyTorch, NumPy, Scikit-learn, and Matplotlib. * Some of the projects demanded an in-depth understanding of deep learning and statistics. | | | | |
| **BA Fundamental Research and Verification of Scale-Free Networks** | | | | Sep.2023-Nov.2023 |
| * Project Goal: Showcasing key characteristics of BA scale-free networks. * Study of Scale-Free Networks: Researching the theory behind BA scale-free networks. * Coding on Open-Source Platforms: Implementing BA networks using practical coding exercises. * C++ for Network Construction: Using C++ for building the network and managing data. * Python for Analysis and Visualization: Employing Python for scientific analysis and visualizing network properties. | | | | |
| **Research and Investigation on New Energy Vehicles Market** | | Nov.2022-Feb.2023 | | |
| * The research focuses on the new energy vehicle (NEV) market, aiming to understand its size, technological advancements, and policy backing. * It involves reviewing academic papers and reports from authoritative sources, followed by extensive data collection and organization using Excel. The data is then analyzed using SPSS for statistical and model analysis and Python for visualization, aiming to identify trends and future prospects of NEVs. * The outcome of the research is a comprehensive report that includes data-driven insights, charts, and conclusions on the NEV market. | | | | |
| **EXTRACURRICULAR ACTIVITIES** | | | | |
| **Baofeng Badminton Club in Shanghai University** | | | Nov.2022- present | |
| * 2022 Freshman Cup of Shanghai University second place * Participed in Men’s singles event of the Dongjing Town Badminton Competition | | | | |
| **Blasters Football Team in Shanghai University** | | | Mar.2022- present | |
| **SKILLS** | | | | |
| * Python, C++, C#, Java, Pytorch, Numpy, Scikit Learn, Pandas | | | | |