Kejing Chang

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Educational Background

September 2021 to June 2025 Xi'an Jiaotong-Liverpool University B.S Information and Computing Science

GPA: 3.88/4.0
Main courses: Object-Oriented Programming, Algorithm Complexity, Problem Solving and Software Engineering, Introduction to Databases, Artificial Intelligence, Data Structure, Computer Networking.

Skill

- **Programming**: Java, Python, HTML, JavaScript, SQL and C
- **Tools**: Eclipse, Linux operating system, VS Code, NetBeans, VMware, Jupyter, XAMPP, Latex
- **Language**: Mandarin (native), English

Research Experience

Jun 2023 to September 2023 Summer Undergraduate Research Fellowships Program Research Fellow

Project Name: Research on Honeypot-based Hands-on Network Attack and Defense (*Python Linux Virtual Machine*)

- Developed series of attack experiments of Amun honeypot with different payloads using Metasploit on a Kali virtual machine.
- Based on the results of the experiment, the kernel modules was rewritten so that honeypot could provide emulated services (telnet and etc.) and respond to attackers
- The honeypot was deployed to the CloudLab (public network) and 3000+ attack data were obtained within two weeks, which was finally analyzed and collated for improving the honeypot

Result: Identified source code vulnerabilities, completed multiple log analysis, and processed attack data. Proposed directions for subsequent improvement. Devised the academic poster and participated in program exhibition.

Project

Feb 2023 to Apr 2023 Xi'an Jiaotong-Liverpool University Patients Classification (*Python*)

Requirement: Designed a classifier to classify health status of patients, according to the mark earned for 15 questions on 5344 candidates.

- Extracted data features and made the dimensionality reduction and correlation analysis of the given dataset.
- Built 3 classifiers in a supervised way (Logistic Regression, Support Vector Machine, Decision Tree) and recommended one classifier among the 3 candidate classifiers and overall results.
- Classified patients to different groups in an unsupervised manner (K-Means algorithm) and justified the final classification.

Result: The accuracy score of classifiers are all beyond 75% in Classification. While in clustering, the Silhouette Coefficient is 0.434 and CalinskiHarabasz Index is 5315.522, which both results have reached the reference standard.

Award

Xi'an Jiaotong-liverpool University Academic Excellence Award (10,000 CNY scholarship) *2021-2022*

Self Evaluation

I am a junior three student majoring in Information and Computing Science. I have a good academic records and I am motivated, patient and careful, and have team spirit working with members. I love computers, and I have some understanding and application of related knowledge as well. I'm looking forward to learn more relevant knowledge in practice and applying it to actual scenarios.