DSE511-HW1

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Response

1. Background:

- Current area of study: I am the first year DSE student. My interests are very broad: in studying classical statistical methods, ML/DL methods, software package development, and the applications on the biomedical fields.

- Degrees: B.S. in Math, M.S. in Biostatistics

2. Computing Experience

I had completed classes in Object-Oriented Programming and fundamental data structures and algorithms during my undergraduate. I am a proficient programmer for Julia, R, JAVA, and MATLAB (the later two I have not used for a while...), and I am currently learning Python for my courses at UTK.

Last year, I worked to develop a statistical method and a software package in the programming language *Julia* which mainly does genome-wide association testing fast last year, under the supervision of Dr. Saunak Sen at UT Health Science Center in Memphis. During my work at UTHSC, I also learned some basic Linux commands myself as well as became proficient in using GitHub.

As for my experience in using HPCs, I have used ISAAC for a few times, but mainly I used the server of UTHSC by SSH.

3. What are you most hoping to learn about from this course?

- I learned and have used most of Linux commands through Google, Stack-OverFlow, and ChatGPT but have never systematically been taught or understand thoroghly. When I had issues they often bother me a lot and took me long time to resolve: for example, recently I had Python version issues that it seems I had multiple Python versions installed (through

Conda, PIP, Homebrew), but I failed to manage them well...I would like to learn about a more efficient/professional way people do to manage different software, packages, files and environments in doing multiple data science projects.

Accounts and Software

1. My GitHub user name:

https://github.com/learningMalanya

2. I have installed git

3. I will use my local Mac environment.

4. I have R at v.4.1.2, Python at v.3.11.5.