**Job Description & Cover Letter**

JOB SUMMARY

The Temporary Data Research Technician is sought to build and maintain data analysis scripts to support analysis of cognitive assessments and training programs that will support both analysis in UNITY Based Applications, AWS servers as well on personal computers. Current analysis scripts are in python and data visualization in R. The candidate will need to work well with both scientists, software developers and students to develop and document data analysis procedures.

KEY RESPONSIBILITIES & ACCOUNTABILITIES

* Programming and maintaining Python scripts for data processing (40%)
* Performing statistical analysis and data visualizations (20%)
* Documenting and training data processing and analysis systems (20%)
* Contributing to other research activities from data collection to data dissemination (20%)

MINIMUM QUALIFICATIONS

* BA/BS degree (MS preferred) in Computer Science, Mathematics, Engineering, Bioinformatics, Psychology, Neuroscience or related technical field.
* One to three years of academic or professional experience.
* Programming experience in MATLAB, Python, and R.

**Position Type**

Temporary

YULUN FENG

150 Exchange St, Malden, MA 02148

[feng.yulu@northeastern.edu](mailto:feng.yulu@northeastern.edu) | 857-488-5069

Hiring Manager

Northeastern University

360 Huntington Ave

Boston MA 02115

October 17, 2024

Dear Hiring Manager:

I am writing to express my interest in the Temporary Data Research Technician position at Northeastern University, which I discovered through Northeastern’s Career Portal. With a Bachelor’s degree in Computer Science and ongoing Master’s studies in Information Systems, I bring a strong foundation in data analysis, Python programming, and statistical visualization. I am particularly drawn to this role due to Northeastern's emphasis on leveraging data analysis in cognitive research, an area I am passionate about.

In my previous role as a Junior Data Analyst at China Mobile, I developed and maintained Python scripts for data processing, which improved our analysis pipeline efficiency by 30%. My experience as a Research Assistant at the University of Electronic Science and Technology of China further honed my skills. I contributed to an artificial neural network project focused on fuel cell stack consistency prediction, where I managed data collection, preprocessing, and model tuning in MATLAB. These experiences have equipped me with the technical and analytical skills necessary for this position.

Furthermore, my academic projects at Northeastern have involved Python for data visualization and R for statistical analysis, tools central to this role. I have designed and optimized algorithms, managed databases, and documented technical processes, which will be valuable to your team. I thrive in collaborative environments and adapt quickly to new technologies, making me a strong fit to work alongside your diverse team of scientists and developers.

I am eager to contribute to the innovative research at Northeastern University and to support data analysis in cognitive assessment. Please feel free to reach me at (857) 488-5069 or feng.yulu@northeastern.edu. I look forward to discussing how my background aligns with the needs of your team. Thank you for considering my application.

Sincerely,

Yulun Feng

Enclosure: Resume