

UPSKILLS DATA SCIENCE AND MACHINE LEARNING INTERNSHIP

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I would like to provide you with a progress report for my first week in the Upskills UCT Machine Learning and Data Science Internship. The following points highlight the key aspects of my activities and experiences:

Training and Orientation.

Training and Orientation: During the first week, I participated in comprehensive training sessions and orientation programs. These sessions familiarized me with the company's culture, introduced me to the team members, and provided insights into the tools and technologies used in machine learning and data science projects.

Project Assignments:

I was assigned two projects during the first week. The first project involves selecting the appropriate PS for our further workings and analyzing a large dataset to identify patterns and trends using machine learning algorithms. The second project focuses on the training session of big data and machine learning. I have started gathering the necessary data and conducting initial exploratory data analysis to gain a better understanding of the projects' requirements.

Skill Development:

Throughout the week, I had the opportunity to expand my skill set. I improved my proficiency in Python programming and fundamentals of machine learning and gained hands-on experience with popular libraries and frameworks such as numpy, pandas, matplotlib and scikit-learn. Additionally, I deepened my understanding of data preprocessing techniques and feature engineering methods.

Collaboration and Communication

I actively engaged in team collaboration and communication activities. I participated in daily video streaming where we discussed fundamental learnings and addressed any challenges. We got guidance and mentorship, which significantly contributed to my learning experience.

Challenges and Learning Opportunity

While working on the projects, I encountered challenges related to Problem Statement Selection. All PS are so learnable, elaborative and exploratory that it really takes a lot of time thinking about the perfect PS for my internship during this period of time. However, through research and utilizing online resources, I was able to finalize my PS among these PS. The PS I selected is this:

Smart City : Forecasting of Smart city traffic patterns

Goals for the Next Week

- Complete the initial data exploration phase for both projects and document my findings.
- Begin implementing machine learning models and algorithms for the smart city traffic prediction project.
- Participate in additional training sessions and workshops to further enhance my knowledge in specific areas of interest, such as natural language processing or deep learning.

Thank you for your guidance and support throughout my first week. I am enthusiastic about the internship and eager to continue learning and contributing to the team's success. Please

let me know if there are any specific areas or tasks you would like me to focus on in the coming weeks.

Thanks and Regards

Sneha Agrawal