



IFSI

RESEARCH



Student Spotlight: Sarthak Joshi

1. Give background on yourself.

I am pursuing Master's in Information Management University of Illinois at Urbana Champaign. I completed my undergrad in Marine Engineering. After completing undergrad, I decided to dive into the World of Data and worked with an analytics firm where I learned different analytical tools such as Python, PowerBi, Tableau etc. Later on, to hone my skillset further I decided to pursue Masters.

2. How did you become interested in firefighting or the industry?

Talking about emergency responders, as a Marine Engineer I have been part of it. Moreover, firefighting subjects and training in my undergrad gave me experience about this industry. Working at IFSI was a unique opportunity to apply my Data Analysis and Firefighting knowledge together.

3. What are the types of things you have worked on while at IFSI?

I worked on the data set of PPE interface project where I analysed the behaviour of parameters such as heart rate and core temperature of firefighter wearing three different types of PPE: Standard Gear Short Sleeves, Standard Gear Long Sleeves, One Piece Long Sleeves in four different activities. I analysed the data using Python data analysis and visualization libraries. Currently I am working on plotting the dashboard using Plotly Dash library which can be more user friendly for anyone to gain insights.

4. What are you doing now or plan to do and how has your experiences at IFSI helped you in these roles?

After completing my Masters, I want to work as data analyst, the experience that I got working on PPE interface project at IFSI helped me to improve my exploratory data analysis and visualization skills which will play a key role to achieve my future objectives.

5. What advice would you give to new students interested in this field?

The best part I observed at IFSI is the research projects which involves skillset different arena for example IT, mechanical, health care ect. Working at IFSI is a great opportunity for the students who want to be the part of an interdisciplinary research.



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