Siemens CRISP-X: Climate Resilient Infrastructure for Sustainability and Performance Excellence

Key tasks:

1. Data Management: Retrieve, clean, format, and integrate data from a variety of repositories to ensure its quality and usability.
2. Software Development with Python: Collaboration with team of developers, optimize and test code to ensure performance and reliability. Maintain clear and comprehensive documentation to facilitate smooth handover through proficient code commenting.
3. Neural Network Development: Build, train, and assess neural networks for various applications within CRISP-X functionality.
4. API Integration: Develop and integrate APIs to access and work with external data sources and tools.
5. Skills required:
6. Advanced Python Proficiency: Demonstrated expertise in Python programming.
7. Data Science and Quantitative Modeling: Background in quantitative modeling and data science. Familiarity with DICE, DEFINE, or CLIME Invest models or probabilistic risk management is advantageous.
8. Neural Networks and Explainable AI: Experience with neural networks and generative models, and familiarity with producing explainable AI solutions preferred.
9. Transfer Learning: Ability to utilize existing neural networks with minimal additional data for developing key features, such as building typology classification from real estate images and user-input descriptive data.

Description:

Join Siemens CRISP-X and harness the power of AI to strengthen infrastructure against climate risks. Our pioneering software analyzes open-source data and employs machine learning to create tailored, location-specific resilience strategies. By integrating climate models and GIS data, we assess risks at the zip code level, predict physical and financial impact on buildings and occupants, thereafter, crafting customized action plans that provide clear roadmaps towards driving climate resiliency. Shape tomorrow with us, where your expertise drives meaningful change!

CRISP-X - *Challenge: Driving climate resiliency*