GEG 590/645/ARC 685 URBAN ANALYTICS & GEOVISUALIZATION

Section: HI Mondays/Wednesdays 3:35 pm – 4:50 pm

Dr. Sarbeswar Praharaj

Course Outline

Cities are producing vast amounts of data due to growing digitization in society and the built environment. This course will demonstrate how diverse sources of urban data can be collected, analyzed, and communicated through computation and visualization tools. You will be exposed to a range of cutting-edge datasets typically encountered by professional analysts and gain hands-on experience in exploring complex data using web-based mapping, dashboard design, and story mapping techniques. We will further explore applications of these tools through our guest speakers from local governments. The course will prepare you to communicate data with confidence and engage the broader public with your insights. You will not only design visualization but also learn to evaluate how users engage with visual interfaces. Overall, you will gain a critical appreciation of the potential for urban analytics and visualizations to inform community solutions and policy-making.

Skills you will gain:

Data-driven Decisionmaking in the Urban Context

Web-based Mapping

Data Dashboard Design

Story Mapping

Visual Interface Design

Data Communication

Engaging Public with Data

Data Ethics & Governance

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