

Personalized Learning Plan

Create Study Schedule

Study Plan for CSD 4151 - Applied Artificial Intelligence:

Week 1-2:

Module I - Introduction to AI Technology:

- Overview of computer graphics applications and history
- Introduction to Robotics, Robot Kinematics, Control, and Planning
- Image Processing and Computer Vision: Digital image processing, visualization, acquisition, and digitization
- Introduction to Natural Language Processing
- High-Performance Computing

Week 3-4:

Module II - AI in Business, Finance, and Medicine:

- Electronic commerce technology
- Operations research
- Financial calculus
- Fraud Detection and Prevention
- Marketing analytics
- Time-series analysis
- Survival analysis
- Bayesian learning
- Modern biostatistics
- Omics data analysis

- Medical image analysis

Week 5-6:

Module III - AI in Smart City:

- Theories and Global Trends in Urban Development
- Urban Problems, Interventions, and Design Thinking
- Smart building and Infrastructure
- Introduction to geographic information systems (GIS)
- GIS in environmental studies
- Transport and society
- Waste management

Week 7-8:

Module IV - AI in Neurocognitive Science:

- Introduction to psychology
- Perception
- Foundations of cognitive science
- Emotion Recognition and Affective Computing
- Cognitive Agents and Virtual Humans
- Brain Imaging analysis
- Brain Computer Interfaces (BCIs)
- Neural Data analysis

Week 9-10:

Module V - AI for Government Processes:

- Deep Learning and intelligent Robots in Government

- AI and Systems thinking in Public sector
- AI-based CHATBOTS in Public Administration
- Sentiment Analysis for Public Reactions to COVID-19 Vaccine
- Development and Adoption of Public Sector AI in Peru

Note: Ensure to review the referenced materials for further in-depth understanding and application of the concepts covered in each module.

End of Plan

Thank you for using Aura's Learning Plan Generator!