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DR. A.VENU GOPAL MADHAV

**Senior Research Scientist
Nanyang Technological University Singapore**

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Dr Venu Gopal is an expert in AI and data science, data generation through research, data mining, extracting insights and predictions. His past experience includes exploring and presenting piezo-sensor data, IoT, Data electronics and arduino-hardwares, robots, smart city-haptic and informatics etc. His current research include heating, cooling and predictive maintenance of smart homes using AI. He obtained patents in sensor attachment and application of haptics and published over 30 journals and articles, 40 conference papers/ book chapters. He has rich experience in Industry based AI & ML algorithms under Singapore data industry subsidy (SDIS) program.