

Team AI_11

Team Number: AI_11

Stack: Machine Learning and Artificial Intelligence

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Project Domain: Image Processing, Machine learning, Computer Vision

Project Title: Computer vision for the visually impaired

Project Description: The project would help visually impaired people to interact with their environment. It is based on computer Vision. The visually impaired person would be equipped with a system having a camera which would be used for various purposes like obstruction detection, recognize signs, text read-aloud and face-mask detection. The system would also be equipped with a chatbot with which the person can interact and give commands.

LESSON PLAN, DEADLINES AND MILESTONES

Group #1 (Novice Track)

- 16 June: Basics of Linear Algebra, Calculus & Statistics
- 17 June: Basics of Python
- 18 June: An Introduction to NumPy and Matplotlib
- 20 June: Image Processing -I
- 22 June: Image Processing -II
- 25 June: An Introduction to OpenCV and PIL
- 28 June: Revision of topics
- 30 June: Mini Project on Computer Vision
- 15 July: Project review #1
- 30 July: Project review #2
- 10 August: learning test
- 15 August: Project review #3
- 30 August: Final Project REVIEW

Group #2 (Not-So-Novice Track)

- 16 June: Basics of Linear Algebra, Calculus & Statistics
- 17 June: Review of Python
- 18 June: Review of Numpy and Matplotlib
- 20 June: Image Processing -I
- 22 June: Image Processing -II
- 25 June: Basics of OpenCV and PIL
- 28 June: Revision of Topics
- 30 June: Mini project on Computer Vision
- 15 July: Project review #1
- 30 July: Project review #2
- 10 August: learning test
- 15 August: Project review #3
- 30 August: Final Project REVIEW