# AI Lab 2

## Karl-Johan Djervbrant

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## Task 1 Path Planning

| Classifier | Neighbors | Distance Measure | Score |
|:---:|:---:|:---:|:---:|
| KNN | 2 | Manhattan | 0.68 (+/-0.45) |
| KNN | 3 | Manhattan | 0.73 (+/-0.45) |
| KNN | 4 | Manhattan | 0.73 (+/-0.47) |
| KNN | 5 | Manhattan | 0.73 (+/-0.45) |
| KNN | 6 | Manhattan | 0.74 (+/-0.45) |
| KNN | 7 | Manhattan | 0.74 (+/-0.45) |
| KNN | 8 | Manhattan | 0.71 (+/-0.47) |
| KNN | 9 | Manhattan | 0.71 (+/-0.47) |
| KNN | 10 | Manhattan | 0.70 (+/-0.48) |
| KNN | 11 | Manhattan | 0.73 (+/-0.48) |
| KNN | 12 | Manhattan | 0.71 (+/-0.47) |
| KNN | 2 | Euclidean | 0.69 (+/-0.44) |
| KNN | 3 | Euclidean | 0.70 (+/-0.45) |
| KNN | 4 | Euclidean | 0.70 (+/-0.44) |
| KNN | 5 | Euclidean | 0.71 (+/-0.48) |
| KNN | 6 | Euclidean | 0.69 (+/-0.49) |
| KNN | 7 | Euclidean | 0.70 (+/-0.50) |
| KNN | 8 | Euclidean | 0.68 (+/-0.48) |
| KNN | 9 | Euclidean | 0.68 (+/-0.48) |
| KNN | 10 | Euclidean | 0.68 (+/-0.49) |
| KNN | 11 | Euclidean | 0.67 (+/-0.48) |
| KNN | 12 | Euclidean | 0.68 (+/-0.49) |
| KNN | 2 | Minkowski p=$2^{1.5}$ | 0.69 (+/-0.45) |
| KNN | 3 | Minkowski p=$2^{1.5}$ | 0.68 (+/-0.47) |
| KNN | 4 | Minkowski p=$2^{1.5}$ | 0.69 (+/-0.45) |
| KNN | 5 | Minkowski p=$2^{1.5}$ | 0.70 (+/-0.49) |
| KNN | 6 | Minkowski p=$2^{1.5}$ | 0.69 (+/-0.47) |
| KNN | 7 | Minkowski p=$2^{1.5}$ | 0.70 (+/-0.47) |
| KNN | 8 | Minkowski p=$2^{1.5}$ | 0.67 (+/-0.48) |
| KNN | 9 | Minkowski p=$2^{1.5}$ | 0.67 (+/-0.48) |
| KNN | 10 | Minkowski p=$2^{1.5}$ | 0.68 (+/-0.48) |
| KNN | 11 | Minkowski p=$2^{1.5}$ | 0.67 (+/-0.47) |
| KNN | 12 | Minkowski p=$2^{1.5}$ | 0.68 (+/-0.47) |