



The Future of Deep Learning

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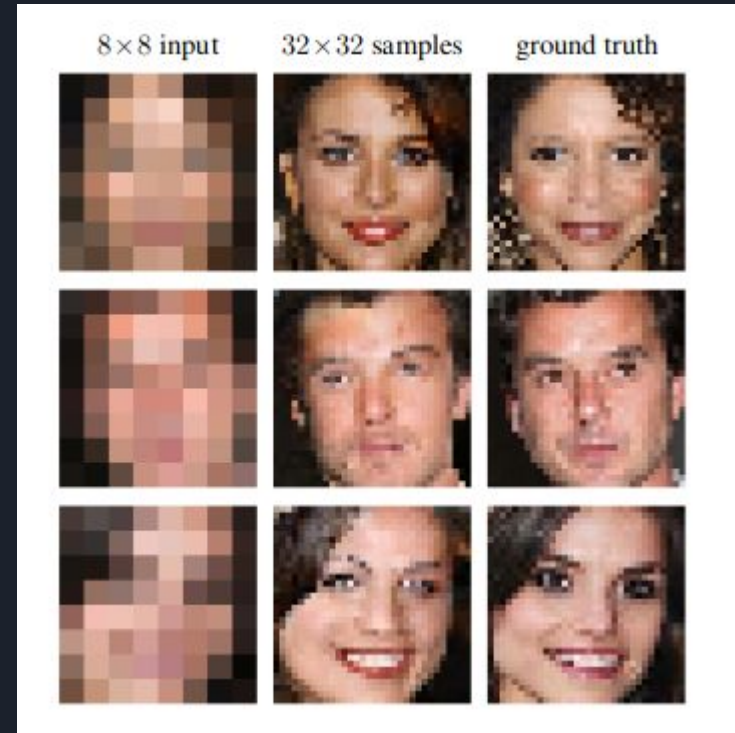


Studied Applications

- Reflected on problems related to
 - **Super Resolution**
 - **Self-Driving Cars**

Super Resolution (What)

- Input
 - 8x8 pixels
 - Real low resolution image
 - Output
 - 32x32 pixels
 - Fake high resolution image
 - Ground Truth
 - 32x32 pixels
 - Real high resolution image
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- How much can the results be trusted?





Super Resolution (Why/Who/How Many)

- Important because
 - Could improve security camera footage
 - Could incriminate innocents
- Affects
 - Law makers
 - Everybody who could be wrongly convicted

Self-Driving Cars (What)

Waymo

- Trained with 2.7 billion miles of simulated road and 5 million miles of self-driving
- Testing underway on public roads

Questions being raised

- Ecological impact?
- Who is responsible for crashes?
- Regulations?





Self-Driving Cars (Why/Who/How Many)

- Importance
 - Could improve carbon emissions
 - Safety
 - Responsibility
- Affects
 - Everyone on the road
 - Legislators
 - Car manufacturers



Questions