

# MANOJ KESANI

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Currently working as Computer Vision researcher , familiar with NLP tasks and actively seeking a career in Data Science.

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## Skills

Languages: Python, Matlab, SQL,C

Tools: Linux,TensorFlow,AWS,PyTorch,OpenCV,Pandas,NumPy,TensorRT.

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## Projects and Publications

Object Detection	<a href="https://github.com/manojk/object_detection">Github.com/object_detection</a>	<a href="#">Publication</a>
Unsupervised Image Retrieval	<a href="https://github.com/manojk/image_retrieval">Github.com/image_retrieval</a>	<a href="#">Publication</a>
CrowdHuman detection	<a href="https://github.com/manojk/crowdhuman">Github.com/crowdhuman</a>	
Molecule property prediction	<a href="https://github.com/manojk/mp_nn">Github.com/mp_nn</a>	
Harmful Meme Sentiment Analysis.	<a href="https://github.com/manojk/nn">Github.com/nn</a>	

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## Education

*Birla Institute of Technology and Science, Pilani*

*M.Sc.(Hons.) Physics + B.E(Hons.) Electronics and Instrumentation* *JUNE 2020*

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## Coursera Cretifications

[SQL for Data science](#)

[AWS Fundamentals Specialization](#)

[Natural Language Processing Specialization](#)

[Advanced MachineLearning with TensorFlowon Google Cloud Platform Specialization](#)

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## Experience

**Data Science Intern** *UST Global ,Trivandrum* *Jan'20- present*

Developing Computer Vision tools for analysis of customer behaviour in a shopping mall.

- Shopping cart detection using EfficientDet architecture.
- Multi Camera Multi Person Tracking and ReID using Omni-ScaleNet.
- Detecting and notifying cashier if Bottom of the Cart is filled, to reduce loss.
- Maintaining count of people in shopping malls and detecting social distancing.
- Gaining insights like male to female ratio, heat map of high and low traffic areas.

**Academic Researcher** *PHYSICS Department,BITS Goa* *Aug'19-Dec'19*

"Developing predictive tools for predicting physio-chemical and quantum mechanical properties for small molecules"

- Modeling molecules as Graph Networks, using Message Passing Neural Networks and Gibbs Sampling on the graphs to predict properties of a molecule.

**Head of Photography** *Department of Photography,BITS Goa* *May'16-May'17*

- Managed a group of 30, in Cultural,Technical & Sports fests as the Dpt Head.