

Uvais Karni

📍 Uppsala, Sweden

☎ +46764469651

℞ www.researchgate.net/profile/Uvais-Karni/research

✉ uvais_karni@outlook.com

in linkedin.com/in/uvais-karni-531a06147

🐙 github.com/uvaiskarni

PROFILE

With a master's degree in computer science, I'm excited to contribute to the success of my team and the growth of my company. A motivated learner with a background in machine learning and computer vision who is keen to contribute to cutting-edge technological progress.

EDUCATION

09/2019 – 12/2021

Uppsala, Sweden

Master's in Computer Science

Uppsala University [🔗](#)

Specialisation: Machine Learning, Image Analysis and Computer Vision.

PROFESSIONAL EXPERIENCE

01/2021 – 09/2021

Stockholm, Sweden

Master's Thesis Intern, Pedestrian Multiple Object Tracking Using Deep Learning

Veoneer [🔗](#)

- Implemented two Multi-Object Tracking approaches Deep SORT and SORT-OH.
- Tested the viability of DNN based features in tracking.
- Determined that Re-Identification features and detection quality are critical to the performance of the Object Tracking approach.

09/2020 – 01/2021

Stockholm, Sweden

Project Intern, Decentralized Air Quality Monitoring and Prediction

Ericsson [🔗](#)

- Utilizing Federated Learning, developed and implemented a Time-series prediction model using LSTMs to forecast multivariant air pollutants values in Stockholm.
- Performed data visualisation to comprehend the data, feature selection based on SHAP values and correlation, data imputation of missing values and outlier detection.

09/2018 – 07/2019

Chennai, India

Data Analyst Intern

Resulticks

- Responsible for data interpretation, data mining and data visualisation.
- Developed an app using R Shiny to generate essential dynamic plots frequently utilised by the organisation on data directly (made the repetitive task of data visualization a lot quicker).

SKILLS

Computer Vision

Object Detection,
Object
Segmentation &
Object Tracking

Machine Learning

Supervised,
Unsupervised &
Reinforcement
Learning

ML libraries

TensorFlow, Scikit-
learn, NumPy,
Pandas, Matplotlib,
Plotly, & Open CV

Programming Languages

Python, R, MATLAB &
C++

Others

Git, Raspberry PI &
Arduino

Big Data

Framework

Spark & Hadoop

Database

RDBMS (MySQL) &
NoSQL (MongoDB)

Linux OS

Ubuntu & Raspberry
Pi OS

PROJECTS

Reddit Data Analysis and Scalability testing [↗](#)

Performed NLP analysis on Reddit data using Hadoop and Spark on Open Stack clusters.

Multi-Hand Gesture Recognition Using Faster R-CNN [↗](#)

Trained and Implemented an object detection network on locally generated and annotated data to recognise multiple hand gestures.

Registration plate localisation and character classification using SVM classifier [↗](#)

Developed and implemented a pipeline to localize the vehicle license plate and identification of the characters using image analysis techniques at varying conditions of illumination and projects.

Reinforcement learning implementation in Unity 3D using PPO algorithm [↗](#)

Implemented and trained a maze traversing RL agent in Unity.

PUBLICATIONS

Development of Flexible Autonomous Car System Using Machine Learning

(Published by Springer Langkawi, Malaysia -SPRINGER ISBN: 978-3-030- 20716-8)

Application of UAV For Pest, Weeds and Disease Detection Using Open Computer

(Published by IEEE XPLORE Tirunelveli, India - IEEE ISBN:978-1-5386-5873-4)

Modelling of Smart Airborne Wind Turbine System with Neural Network based on MPPT IEEE

(Published by IEEE Technically Sponsored Balikpapan, Indonesia - IEEE
ISBN:978-1-5386-7725-4)

LANGUAGES

English

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Tamil

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Swedish

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REFERENCES

Ehsan Amini, Senior Feature Engineer, Arriver

ehsan.amini@arriver.com, +46 733440864

Anil Poudel, Software Engineer, Core Technology, Axis

anil.poudel@axis.com, +46 735243940