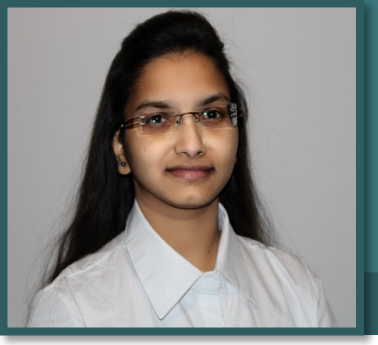

# SHAMINI KORAVUNA

shaminik9646@gmail.com +49 17655204246 Ingolstadt, Germany

## WORK EXPERIENCE

**04/2020 – 09/2020** **Associate - Machine Learning Trainer**

*Robokalam Technologies, Hyderabad, India*

- Provided assistance in curriculum development on Data Science, Machine Learning, and Deep Learning with python.
- Designed, developed, optimized: Computer Vision, Machine Learning, Deep Learning models and algorithms that can be used to train graduates on edge devices.
- Trained 350+ graduates in Machine Learning and Computer Vision using python.
- Lead the research on "Educational Gamification and Artificial Intelligence for Promoting Digital Literacy and Effective User Engagement in the Online Learning Management System".

**06/2019 – 12/2019** **Freelancer Deep Learning Engineer – Master Thesis**

*Audi Electronics Venture GmbH, Gaimersheim, Germany*

- Literature research to find the state-of-the-art human pose estimation methods.
- Fine-tuning the 2D pose detector model with different sensor modalities.
- Used a student-teacher approach to transfer the pose estimation to other sensor modalities.
- Integrated the test results.

  **Tools Used**: Docker, HDF5Viewer, Kubernetes, OpenCV, PyCharm, TensorFlow

## EDUCATION

**10/2020 – Present** **Machine Learning Engineer – Nano Degree**

*Udacity*

- Learning machine learning techniques and algorithms -- including how to package and deploy the models to a production environment.
- Gaining practical experience using Amazon SageMaker to deploy trained models to a web application and evaluate the performance of the models.
- Learning how to update the models as we gather more data.

**11/2016 – 09/2020** **Master of Science in Embedded Systems**

*Chemnitz University of Technology, Chemnitz, Germany*

- Computer Vision, 3D Image Processing, Hardware/Software-Codesign, Real-Time Systems, Design of Software for Embedded Systems, Software Platforms for Automotive Systems, Smart Sensor Systems, EDA-tools, Components and Architectures of Embedded Systems.

  **Research project:** 3D Human Pose Estimation using Deep Neural Networks.

  **Master Thesis:** 3D Human Pose Estimation using Different sensor Modalities at Audi Electronics Venture GmbH, Ingolstadt, Germany

**09/2011 – 06/2015** **Bachelor of Engineering in Electronics and Communication Engineering**

*Osmania University, Hyderabad, India*

- Computer Networks, Digital and Analog Electronics, Digital & Analog Communication, Automatic Control Systems, Microprocessor & Microcontroller, Digital Image Processing, Global Positioning Systems.

  **Bachelor Thesis:** Implementation of Visible and Invisible Video Watermarking Technique.

## SKILLS

| | |
|---|---|
| **Languages** | English (Advanced), German (Intermediate) |
| **Programming Languages** | Python**,** C++, C, Embedded C |
| **Deep Learning Frameworks** | TensorFlow, Keras, PyTorch |
| **Programming Libraries** | Folium, Numpy, OpenCV, Pandas, Scipy, Scikit- learning, Sqlite3, Tkinter, CUDA |
| **Web Framework and Front-end** | Python-Flask, REST-API, CSS, HTML |
| **Platforms** | Amazon AWS-Sagemaker, Kubernetes, Docker |
| **Data Visualization Tools** | Matplotlib, Seaborn, Tableau |
| **Neural Networks** | ANN, DNN, CNN, LSTM |

## CERTIFICATIONS

| | |
|---|---|
| **09/2019 – 10/2019** | Image Recognition with Neural Networks at Udemy Education |
| **01/2019 – 02/2019** | Crash Course in Deep Learning with Google TensorFlow Python at Udemy Education |
| **12/2018 – 02/2019** | Complete Guide to TensorFlow for Deep Learning with Python at Udemy Education |
| **12/2018 – 02/2019** | Complete Guide to TensorFlow for Deep Learning with Python at Udemy Education |

## PROJECTS

**Sentiment Analysis of Movie Reviews**

- Built and deployed a deep learning model that predicts the sentiment of a user-provided movie review using Amazon SageMaker.
- Created a simple web app that uses the deployed model and accepts user input.
  Project Link

**German Traffic Signs Recognition using CNN and Keras**

- Designed a CNN model for recognizing German traffic signs.
- Achieved an accuracy of 94.33%.
  Project Link

**Multiple Human Identifier and Counter in Real-Time**

- Designed an efficient human counter using HOG and OpenCV.
- The model takes images, videos, or even a live camera as input for detecting and counting humans.
  Project Link

**Classification of Car Brand using Deep Learning**

- Created the classification algorithm by transfer learning and fine-tuning Inception-V3 model using cars dataset from Stanford.
- The model can recognize 195 classes of cars with an accuracy of 83.94%.
  Project Link

## PUBLICATIONS AND AWARDS

- Shamini Koravuna, Uday Kumar Surepally “Educational Gamification and AI for Promoting Digital Literacy”. In Proceedings of 2nd International Conference on Intelligent and Innovative Computing Applications (ICONIC’20). ACM, New York, NY, USA. 2020.
- Surepally Uday Kumar, K. Shamini “Smart Remote for the Setup Box Using Gesture Control” in International Journal of Research and Application ISSN: 2248-9622, Vol. 6, Issue 4, (Part - 3), pp.18-25. 2016.
- K. Shamini, C. Bhagya, M. Sri Sowmya “Implementation of a Visible and Invisible Video Watermarking Technique” in International Journal of Engineering and Computer Science ISSN: 2319-7242 Volume 4 Issue, Page No. 11754-11760. 2015.
- Awarded merit certificate for achieving 91% in 6th & 7th semester in the Department of Electronics and Communication Engineering.