



# Siddhey Ratnaparkhi

## M.Sc Mobile & Embedded Systems

Engineering graduate focusing on applications and research goals in intelligent systems.

### EDUCATION

#### Universität Passau

Passau, Germany

Masters in Mobile & Embedded Systems

Thesis: Image Segmentation of Laser Cut Metal Parts using Synthetic Image Data, TRUMPF Werkzeugmaschinen GmbH + Co. KG

- Generation of image data using computer vision methodology
- Study of deep learning image segmentation model architectures
- Development and evaluation of image segmentation model

Academic Projects:

- Data Science Project: Estimation of difficulty in calving for cows, Bayerische Landesanstalt für Landwirtschaft
- Research Project: Deceiving IR based and RGB based cameras
- Development of self-organizing systems in NetLogo

#### University of Pune

Pune, India

Bachelors in Electronics & Telecommunication

Thesis: Gesture Controlled Robotic Vehicle

- Free control of vehicle prototype: Navigation through hand gesture
- Wireless communication through Radio Frequency

### WORK EXPERIENCE

#### Data Scientist at ROSEN Technology and Research Center GmbH

Lingen, Germany

- Research and development of ML model as MVP
- Sensor data visualization and information retrieval

#### Data Visualization and Machine Learning Intern at TRUMPF GmbH

Ditzingen, Germany

- Study and data visualization for the light grid sensor
- Development of a user dashboard (GUI & server)

### CERTIFICATIONS

- Deep Learning A-Z™: Hands-On Artificial Neural Networks
- Machine Learning A-Z™: Hands-On Python & R in Data Science
- Disruptive Battery Technology & Innovation
- Sprachenzentrum Deutsch B1

### FOCUS AREAS

- Intelligent System
- Data Science
- Information Retrieval
- Sensor Data Fusion

### SOFTWARE SKILLS & TOOLS

Python

R

C++

MySQL

MATLAB

Tensorflow

Keras

OpenCV

scikit-learn

NumPy

Pandas

Matplotlib

PyTorch

PyCharm

RStudio

NetLogo

Windows OS

Linux OS

MS Office

### LANGUAGES

- Deutsch: Independent User, B1 Level
- English: Proficient User, C1 Level
- Hindi: Native
- Marathi: Native

### INTERESTS

- Writing Skills: Poem Blog
- Sport: Basketball, Badminton