Vicky **Parmar**

Machine Learning Engineer / Data Scientist / Research Assistant

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Birthdate	15.12.1994
Nationality	Indian

ABOUT ME

I'm an experienced machine learning engineer/data scientist/research assistant with four years of experience developing ML models and algorithms for various industries. I'm skilled in data preprocessing, feature engineering, model selection, and hyperparameter tuning. Proficient in Python and experienced in TensorFlow, Git, Docker, and more. I'm a valuable asset to any organization due to my excellent problem-solving skills and ability to work in a team.

SKILLS

Python	●●●●●	**TensorFlow**	●●●●○	**Pandas/Numpy**	●●●●○
SQL	●●●○○	**PyTorch**	●●●○○	**Git**	●●●○○
AWS	●●●○○	**Scikit-Learn**	●●●●○	**Docker**	●●●○○

WORK EXPERIENCE

Research Assistant: ***University Hospital Essen, Essen, Germany***

December 2020 - present

- **Radiomics:** Responsible for creating a workflow for decoding tumors and deploying an API. The workflow included preprocessing medical images (CT-Scans, MRIs, etc.), extracting radiomics features, and performing classical machine learning analysis for classification problems.
- **Medical Imaging:** Resampling, co-registration, skull stripping, feature engineering (CT-Scans, MRIs, and HSIs).
- **Side Projects:** Survival Analysis, Python package for FHIR, Python package for repetitive modules, Large Language Models (LLMs / NLP), and Computer Vision (AI-Orchestrator)

Data Scientist: ***Brunel GmbH, Düsseldorf, Germany***

May 2019 - November 2020

- **Project at Met/CON GmbH:** Developed an automated system to extract information (data) from sensors, preprocess the data, and establish a long-term database.

Master Thesis: ***3M Germany GmbH, Neuss, Germany***

October 2018 - March 2019

Prediction and Evaluation of Cooling Energy Consumption to Optimize Production Rates in the manufacturing process

- Clustering and Time-series analysis. Designed sequence-to-sequence models using Recurrent Neural Networks (RNNs: LSTMs and GRUs).
- Gained experience in working with SCRUM and Agile methodology.

EDUCATION

Master of Science (M.Sc.): *South Westphalia University of Applied Sciences, Soest, Germany*

Systems Engineering and Engineering Management (April 2017 - May 2019)

Subjects: Systems Engineering (Machine learning), Project Management, Business Engineering, Electrical Engineering, Mechanical Engineering

Bachelor of Engineering (B.E): *Gujarat Technological University, Ahmedabad, India*

Mechanical Engineering (June 2012 - May 2016)

Subjects: Kinemetics of Machine, Theory of Machines, Industrial Engineering, Automobile Engineering, Basics of Electrical Engineering, Fluid Mechanics

ADDITIONAL PROJECTS

- Image classification
- Object detection
- Fault detection and diagnosis
- Text generation and classification

CERTIFICATES

- TensorFlow Developer Certificate
- DeepLearning.AI TensorFlow Developer Specialization
- Data Science Methodology
- Open Source tools for Data Science

LANGUAGES

English	Native	**Gujarati**	Mother Tongue
German	Proficient	**Hindi**	Native

SOFT SKILLS

Team Player
Communicator
Presenter

HOBBIES

Cooking
Trekking
Travelling