


# NAGA VENKATA SAI JITIN JAMI

Erlangen, Germany

 [jitinjami.github.io](https://github.com/jitinjami)

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 [Jitin Jami](#)

 [jitinjami](#)

## EDUCATION

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**Friedrich-Alexander-Universität Erlangen-Nürnberg**

*PhD Computer Science*

**10/2023 – Present**

*Erlangen, Germany*

**Friedrich-Alexander-Universität Erlangen-Nürnberg**

*MSc Computational Engineering*

**10/2020 – 09/2023**

*Erlangen, Germany*

Coursework: Pattern Recognition, Pattern Analysis, Machine Learning Time Series, Numerical Methods

**Università della Svizzera italiana**

*Masters in Computational Science*

**09/2021 – 09/2023**

*Lugano, Switzerland*

Coursework: Machine Learning, Deep Learning Lab, High Performance Computing, Graph Deep Learning

**Manipal Academy of Higher Education**

*B. Tech in Aeronautical Engineering*

**08/2014 – 05/2018**

*Manipal, India*

## WORK EXPERIENCE

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**Doctoral Researcher** | MaD Lab, FAU

**10/2023 – Present**

- Wound image analysis with localization and tissue segmentation using Computer Vision.
- Chemical environment analysis from pH, O2 and CO2 sensors inside wound bandage to track wound recovery.
- Teaching Assistant for Digital Biosignal Analysis course.


**Computational Science Werkstudent** | Siemens Healthineers

**03/2023 – 09/2023**

- Contributor to the DigitalTwin of the Heart project to simulate Atrial Fibrillation
- Computational Modelling of Left Atrium for Universal Atrial Coordinates in 2D.
- Successful generation of landmarks and geodesic paths to describe topology on a 2D map applicable to 70% of patients

**Research Assistant** | MaD Lab, FAU

**03/2022 – 03/2023**

- Research assistant on the Deutsche Museum Project , to build an AI software for tracking visitors in a museum.
- Built Computer Vision models for Age detection using multi ethnic facial datasets to increase efficiency to 97% on custom multi-ethnic test datasets.
- Carried out data annotation using CVAT that was further used training Computer Vision model for Multi-camera multi-object tracking.

**MaRS Scholarship Researcher (Master Thesis)** | USI, Lugano

**07/2022 – 02/2023**

- Improved Locational Marginal Price prediction time using Machine Learning and Deep Learning.
- Generated ground truth data with MATPOWER and MOSEK on PGLib-OPF electricity grids.
- Achieved maximum 5% error rate when using popular machine learning models on various  $n-1$  security criterion cases to predict LMP

**Data Science Werkstudent** | Streem.ai

**05/2021 – 10/2021**

- Researched statistical models for anomaly detection in time series data for manufacturing companies.
- Created benchmarking systems to test performance of baseline OneClass Classifiers using synthetically generated datasets designed to test anomaly detection performance.
- Explored model explainability using SHAP library for deriving feature responsibility.

## PROJECTS

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- Age Estimation on UTK Dataset [↗](#)
- Mathematical Reasoning With Transformers [↗](#)
- Text Generation with LSTMs [↗](#)
- Time Series Forecasting with Graph Neural Networks [↗](#)
- Quadratic Programming for Investment Portfolio Optimization [↗](#)

## TECHNICAL SKILLS

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**Languages:** Python, C++, MATLAB

**Developer Tools:** PyCharm, VS Code, Docker

**Technologies/Frameworks:** Linux, Git, Jupyter Lab

**ML Libraries:** NumPy, SciPy, Pandas, scikit-learn, PyTorch, Docker, CVAT, RayTune

## AWARDS

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- Masters Research Scholarship [↗](#)
- ERASMUS Exchange Scholarship [↗](#)

## LANGUAGES

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- English - C1
- German - A2

## REFERENCES

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- **Prof. Olaf Schenk** - Master Thesis supervisor, ✉ [olaf.schenk@usi.ch](mailto:olaf.schenk@usi.ch)
- **Dr. Heike Leutheuser** - Doctoral project supervisor, ✉ [heike.leutheuser@fau.de](mailto:heike.leutheuser@fau.de)