Naga Venkata Sai Jitin Jami

Erlangen, Germany
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EDUCATION

Friedrich-Alexander-Universität Erlangen-Nürnberg **10 2020 –**
MSc Computational Engineering *Erlangen, Germany*

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

Università della Svizzera italiana **09 2021 – 02 2023**
Masters in Computational Science *Lugano, Switzerland*

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

Manipal Academy of Higher Education **08 2014 – 05 2018**
B. Tech in Aeronautical Engineering *Manipal, India*

WORK EXPERIENCE

Computational Science Werkstudent | Siemens Healthineers **03 2023 – Present**

- DigitalTwin of the Heart project
- Computational Modelling
- Shape Analysis
- Technologies: `VTK, Python, PyTorch`

Research Assistant | MaD Lab, FAU **03 2022 – 03 2023**

- Working on Deutsche Museum Project, demonstrating AI's power in Nuremberg's futuristic museum.
- Researching various Computer Vision models for Age detection using multi ethnic facial datasets.
- Data annotation using CVAT for Multi-camera multi-object tracking.
- Technologies: `Python, PyTorch, Docker, CVAT`

MaRS Scholarship Researcher (Master Thesis) | USI, Lugano **07 2022 – 02 2023**

- Improve Locational Marginal Price prediction time using Machine Learning and Deep Learning.
- Generating ground truth data with MATPOWER and MOSEK on PGLib-OPF electricity grids.
- Tested popular machine learning models on various *n-1* security criterion cases.
- Technologies: `Python, PyTorch, MATLAB, MATPOWER, Scikit-Learn, RayTune`

Data Science Werkstudent | Streem.ai **05 2021 – 10 2021**

- Researching statistical models for anomaly detection in time series data for manufacturing companies.
- Creating benchmarking systems to test performance of baseline OneClass Classifiers using synthetically generated datasets designed to test anomaly detection performance.
- Exploring model explainability using SHAP library for deriving feature responsibility.
- Technologies: `Python, scikit-learn, Unit testing, SHAP, TSFEL, Anomaly Detection`

PROJECTS

- 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

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

- Masters Research Scholarship
- ERASMUS Exchange Scholarship

LANGUAGES

- English - C1
- German - A2

REFERENCES

- **Prof. Olaf Schenk** - Master Thesis supervisor, olaf.schenk@usi.ch
- **Dr. Juraj Kardos** - Master Thesis co-supervisor, juraj.kardos@usi.ch
- **Franz Koeferl** - Supervisor at MaD Lab (FAU), franz.koeferl@fau.de