INTERNSHIP / WORK EXPERIENCE SUMMARY

OVERVIEW:

**Company**: Nokia Networks

**Role**: Data Analyst (Student Intern)

**Division**: [NetAct](https://www.nokia.com/networks/solutions/netact/)

**Team**: System Performance

**Project**: Predictive Analysis and Development of Dimensioning Tool

**Programming languages:** Python (*Numpy, Pandas, Matplotlib, Seaborn and Scikit learn*), R, Basic SQL

**Tools**: Jupyter Notebook, Grafana, Zabbix, Confluence, JIRA, MS Excel.

**Work**: Data Collection, Exploratory and Explanatory Analysis, Visualization, Machine Learning.

**Data**: Numerical Data (Mostly Timeseries) of various NAPET simulators and Customer labs

captured/collected from Zabbix/Grafana

HIGHLIGHTS:

Analysing the peak usage of various metrics from different labs.

Comparing and analysing the correlation between various metrics w.r.t hardware configuration like IOPS, CPU, Disk read and write rate, Latency etc.

Conducted stepwise tests in different configuration labs, tabulated and visualized the change in RAM and CPU usage with increasing monitors at each step of the test.

Performed a cause-effect analysis by collecting various metrics and performing statistical analysis on the data.

Established a relationship between Raw disk usage and Counters, Raw disk usage and Aggregated disk usage using regression and statistical methods by sending counters at different measurement intervals. The model was trained with 6 labs and tested on 3 labs.

Performed a detailed analysis of sevaral KPIs on newly incorporated striped configuartion lab vs non-striped configuration lab to check the efficiency and performance change in labs.

Created a time-series model of data to predict the behavior of DB machine using Linear regression, AR, MA and ARIMA models.

OTHER:

Presented my work regularly to the team by organising meetings/demo sessions and obatined feedback for new ideas and usecases.

Gave a technical talk of the complete analysis done to System performance teams at China and Finland along with my team.

Conducted seminars on basic machine learning, deep learning to system performance team.