

NEC Laboratories Europe is the European research center of the NEC Group, a world leader in the computer and communications markets with a large world-wide base of R&D Laboratories. Top researchers from more than 20 countries develop, pilot and bring to reality technologies through open innovation.

NEC Laboratories Europe has an immediate opening for a

# Internship / Master Thesis on Machine Learning for Optimization

[ref: 2019-02-79-DSA]

NEC Laboratories Europe's Data Science group is looking for interns to help us develop and validate new machine learning algorithms to address real-world problems. We develop original algorithms, produce patents and publications at **top scientific conferences and journals**, validate them on real data and develop prototypes for future integration with NEC's products and solutions.

We are looking for an intern to support us with validation and extension of our learning methods for optimization problems. You will learn about state-of-the-art technology and gain hands-on experience in acquiring and preparing data, tuning and extending algorithms, consolidating and analyzing results, extending and shaping our prototypes.

We work together with NEC's business units as well as top research and industrial European institution on cross-domain projects. You will have the opportunity to understand how machine learning solves real problems and to contribute to our prototypes and publications.

NEC Laboratories Europe is located in Heidelberg, Germany. This beautiful area offers a number of exciting cultural, entertainment and outdoor activities. English is the working language.

#### Desired Skills and Experience:

- 6+ university semesters completed;
- University courses or projects on Machine Learning, Data mining, Statistics, Optimization and/or related fields of AI;
- Proficiency in Python;
- Hands-on experience with machine learning frameworks for deep learning (e.g. PyTorch, Tensorflow) and ML frameworks (e.g. sklearn);
- Familiarity with UNIX/ Linux
- Real-world problem solving, hands-on mentality; Good communication skills in English

#### Benefits:

- Early exposure to the fields of Machine Learning and Data Mining;
- Excellent opportunities to obtain experience in an industrial working environment;
- Opportunity to publish papers at top-tier conferences and journals;
- Interns receive a common monthly pay;
- An excellent working environment supporting individual creativity as well as strong teamwork.

**Starting date:** Any time from April/May 2019

**Duration:** 6+ months

Please send your application **by April 30, 2019** electronically via the applications web system <http://www.neclab.eu/jobs> with reference to **[2019-02-79-DSA]**.

#### For questions, please contact:

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