Arttu Modig

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EDUCATION

AALTO UNIVERSITY
M.Sc. (Tech.) in Bioinformation Technology
Oct 2016 | Espoo, Finland
Major: Computational and Cognitive Biosciences
Thesis: *A Metric for Human Motor Capacity*

B.Sc. in Bioinformation Technology
Nov 2015 | Espoo, Finland

LINKS

Facebook:// **amodig**
Github:// **amodig**
LinkedIn:// **amodig**
Twitter:// **@ArttuModig**

Hobbies:
BoardGameGeek:// **Dalar**
Goodreads:// **amodig**
RateYourMusic:// **Dalar**
Rock climbing • yoga • meditation

SKILLS

DATA SCIENCE
I love doing:
Data Analysis • Data Visualization
Bayesian Statistics • Machine Learning
Technologies I've used:
RDBMS • NoSQL • Big Data (Hadoop, Spark, Cloudera, HP Vertica)
Google Cloud (Analytics, BigQuery, Composer/Airflow, Kubernetes, Tag Manager)
Things I've done extensively:
A/B testing • ETL • CRM • KPI

PROGRAMMING
Expert/Working knowledge:
Python (OOP, Jupyter, Pandas, SciPy, Matplotlib) • R (tidyverse, ggplot2)
SQL • Git • Jira • Matlab • Java • LaTeX
Some experience:
HTML5 • CSS • JavaScript
Shell scripting • C • PHP
Scala • Stan • Processing

BUSINESS EXPERIENCE

ARMADA INTERACTIVE | Data Scientist
Dec 2017 – Present | Helsinki, Finland
- Data-informed product design & development and in-game analytics.
- Automated analytics, ETL, data modeling (Airflow, BigQuery) and visualization (Superset) in Kubernetes environment.

VEIKKAUS | Data Scientist
Jan 2017 – Dec 2017 | Helsinki, Finland
- Member of the Operational Analytics team in Digital Marketing, Sales and CR.
- Web analytics & optimization (A/B testing).
- Automated KPI, Performance Attribution and CRM analysis and visualization.
- General data analysis, data exploration and machine learning.

RAY | Data Analyst & Software Developer
Apr 2015 – Dec 2016 | Espoo, Finland
- Member of the Game Studio UX/UI team.
- Member of the Business Intelligence team.
- BI data mining, predictive modelling and reporting automation.
- Computational UX/UI personalization.
- In-game analytics and general data analysis, data exploration and machine learning.

RESEARCH EXPERIENCE

HELSINKI INSTITUTE OF INFORMATION TECHNOLOGY | Research Assistant
2011 – May 2015 | Helsinki, Finland
- Member of the Information, Complexity and Learning research group led by Assistant Prof. Teemu Roos (part of CoSCo).
- Applied information theory, machine learning and Bayesian statistics.
- Created software and services, e.g. a full LAMP production service and a recommendation engine backend service in Python.

MAX PLANCK INSTITUTE FOR INFORMATICS | Research Assistant
Jul 2012 – Sep 2012 | Saarbrücken, Germany
- Computational Human-Computer Interaction research by Ph.D. Antti Oulasvirta.

DEPARTMENT OF MICRO AND NANOSCIENCES, AALTO UNIVERSITY | Research Assistant
2009 – 2011 | Espoo, Finland
- Member of the Photonics research group led by Prof. Seppo Honkanen. Extensive experience with laboratory setups and working in a clean room space with chemical handling.

PUBLICATIONS

Please see: https://dblp.org/pers/hd/m/Modig:Arttu