

Jakob Heyder



EDUCATION

- 2018 - **KTH Royal Institute of Technology** MSc Data Science
2020
- Excellent degree, GPA 4.86 (Sweden)
 - Projects on Data Mining & Visualization, ML and Data Intensive Computing
 - Dissertation on NLP (algorithms implemented in Python)
- 2017 - **Hongkong University of Science and Technology** BSc Exchange
2018
- Courses in probability theory, advanced algorithms and artificial intelligence
- 2015 - **Linnaeus University** BSc Computer Science
2018
- Top of the year, GPA 4.81 (Sweden)
 - Dissertation on artificial intelligence (algorithms implemented in Python)
 - Sparbanksstiftelsen Kronan Scholarship for an outstanding bachelor thesis
- 2012 - **Leibniz Gymnasium** (Abitur)
2014
- A levels in informatics and mathematics, GPA 1.5 (Germany)

WORK EXPERIENCE

- 2018 - **Founder & CTO, Ventury Analytics, Nürnberg (Remote)**
- Leading Captable Management Platform in Germany for Early-Stage Startups
 - Built the platform, planned the roadmap and organized the technical team
 - EXIST Founder Scholarship
- Summer 2017 **Research Intern, Parity Technologies, Berlin**
- Developed first prototype for an Ethereum VM Debugger
- 2016 - **Assistant Teacher, Linnaeus University, Informatics Department**
2017
- Supervised example classes (~ 15 participants) and graded assignments/exams in programming related classes

PROGRAMMING EXPERTISE

- 2018 - **Ventury Analytics Software**
- Built a scalable Backend using Spring, PostgreSQL and Maven (Java)
 - Developed a Frontend with React, AntD and GraphQL (Javascript)
 - Established a CI/CD workflow with Kubernetes, Docker and Gitlab-Workers
 - Created an asynchronous stream processing pipeline with Spark & Kafka
- 2020 **Knowledge Base Augmentation, Master Project at University**
- Extended Fonduers multimodal Bi-LSTM approach for spreadsheets (Python)
- 2019 **Bayesian Propagation Neural Network, Research Project at KTH**
- Incorporated a continuous Bayesian learning rule into a discrete hierarchical temporal model (Python)
- 2018 **Hierarchical Temporal Memory Agent, Bachelor Project at University**
- Extended the HTM-Framework with TD-Learning for autonomy (Python)
- 2015 - **Relevant Lecture Courses at University (incl. Projects)**
2020
- Machine Learning I & II, Artificial Intelligence Introduction, Deep Learning Specialisation (Coursera), Data Mining I & II, Data Intensive Computing, Data Programming, Data Visualization, Advanced Algorithms, Probability Theory, Linear Algebra, Calculus, Statistics, Language & Logic, Discrete Mathematics

SKILLS & INTERESTS

Languages	German (native), English (fluent), Swedish (A1)
Technology	Python, Java, SQL, Javascript, Linux, Machine Learning, Deep Learning
Societies	Kairos Society, KTH Innovation, Stockholm AI Mentee, Kodkollektivet
Interests	Youth Leader, Machine Learning, Neuroscience, Innovation, Economics