Curriculum Vitae

Roope Keto (b. 6.10.1992)
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Education:

09/2019 - (on hold) Bachelor's and Master's in Science and Technology Aalto university
Studies in computer science, mathematics, data analytics and artificial intelligence.

2018 - 2019 studies at the Open University of Helsinki
Completed Introduction to Programming and Advanced Course in Programming, both with the highest grade 5

02/2018 – 02/2019 Deep learning specialization on Coursera offered by deeplearning.ai
Five deep learning courses taught by Andrew Ng. Content included, among others: "Neural Networks", hyperparameter regularization and optimization, "Convolutional Neural Networks" and "Sequence Models".

2018 Chartered Financial Analyst Level I passed

12/2017 Machine learning course on Coursera offered by Stanford
Machine learning course taught by Andrew Ng. Content included, among others: linear and logistic regression, neural networks, anomaly detection, recommender systems, large-scale machine learning

11/2017 Master of Science (Economics and Business Administration). University of Tampere
Major in accounting, minors in economics, marketing, statistics and finance. Additional studies in mathematics and computer science. In my master's thesis I studied bankruptcy risk and an investment strategy utilizing it.

12/2015 Bachelor of Science (Economics and Business Administration). University of Tampere
Major in accounting, minors in marketing, economics, finance, taxation and corporate law.

06/2011 Matriculation examination, High school of Evijärvi

06/2010 One-week space physics summer school in Moscow
At Moscow State Regional University, with a stipend for a gifted physics student.

General securities qualification APV1 2016

Work experience:

02/2026 – Nordlake Oy
Software, automation and AI solutions. Completed client projects;

An AI-based order check built for a sliding-door wardrobe manufacturer, which compares each order document against its parts list and emails any discrepancies before an error reaches production.

A lead radar built for a steel structures engineering workshop, which monitors around 50 sources (incl. public tenders, environmental impact assessments, municipalities and large companies), spots early project signals as well as calls for tender, and delivers a scored list to sales every Monday.

An export lead engine built for a manufacturing company, which searches company registers, trade fairs and directories in seven countries for companies that use the client's products in their own, scores them against the profile of existing customers and writes a ready-made sales brief for each.

An order tracker built for an industrial company, which pulls an order's current status, production stage, expected delivery date and the reason for any delay into one view from scattered systems (ERP, production, warehouse) – so customers' status questions are answered without detective work.

A helpdesk application built for an international equipment supplier: customers' fault reports arrive at a single WhatsApp number, are turned into tickets automatically and routed to the on-call technician, who also has a knowledge base and duty roster on mobile.

A new website built for an engineering group, optimised for both search engines and AI search (ChatGPT, Gemini, Perplexity): structured data, llms.txt, content open to AI crawlers and bilingual service pages, so that AI assistants can recommend the company in the right searches.

A *speed to lead* system built for an Austrian car dealer, where a bot continuously monitors a marketplace and reacts in under 500 milliseconds when a new car matching the set criteria enters the market.

An automated course pricing model built for an adult education centre.

An AI-powered inventory management system and automated order processing built for an eBay merchant. Based on a customer inquiry, the system generates an automatic response about product stock availability and automates the listing of products on the website.

An AI-powered web application built for a recruitment company, with which the company can find suitable candidates for a job posting from its own database faster.

A truck routing application built for an industrial company, which generates a cost-optimal transport route – a single route could cover over a hundred stops across Finland.

Technology partner for a SaaS analytics service for property investors: built the entire service, from data integrations to machine-learning price and rent estimates, user management and an AI chat.

My own accounting software, used for my company's bookkeeping: automatic receipt reading, e-invoicing and data isolated per company at database level.

05/2023 – 10/2026 Oma Säästöpankki Oyj
Data Analyst. Development of AI agents and automation of work processes, writing SQL queries and database management, building interactive dashboards and visualizations, and developing anti-money laundering (AML) and fraud detection systems.

12/2019 – 04/2023 Robonomist Oy
Data Scientist and programmer. The work involved processing large datasets from various sources, data analysis, modelling, machine learning, anomaly detection, visualization, creating dashboards and programming web applications.

Responsible for creating various data visualizations and tables for different countries for Business Finland's "Laivauskäsikirja" product. Gathering, cleaning and analyzing the data and producing clear and informative visualizations and tables.

Responsible for coding a large-scale housing market web application containing over 50 data visualizations and a wide range of statistical information. Utilized machine learning for finding similar reference regions and for predicting housing and rental prices. Responsible from customer acquisition all the way to production deployment to a Kubernetes cluster on Google Cloud.

In addition, used large language models to create a chatbot that uses and explains property markets and related data. Responsible for maintaining customer communication, generating new ideas and implementing improvements to the application.

04/2018 – 11/2019 Ernst & Young Oy
IT auditor. Auditing and analysis of IT systems, controls and information security. I was also responsible for the budgeting process and its automation. In addition, I have coded VBA macros that facilitate and automate work.

12/2016 – 4/2017 PricewaterhouseCoopers Oy
Audit trainee. Auditing as part of an audit team, and in addition independently performed audits of housing companies. Analyzing financial statements, verifying their accuracy and auditing individual items.

2012 – 2022 Hitsauspalvelu Auvo Keto, bookkeeping and financial administration (part-time, family business)
Bookkeeping, preparing financial statements and financial administration of the family business.

2013 – 2016 Pohjanmaan Osuuspankki, customer service advisor
Summer employee for three summers. Fixed-term position 1.9.2015 - 30.4.2016.

Military service:

07/2011 – 03/2012 at the Kauhava airforce base..

Languages:

Finnish: native. English: excellent. Swedish: satisfactory. German: satisfactory

IT skills:

In general: Excellent skills in AI, agents, data analysis, visualization, modelling, simulation, and in building and deploying machine learning and deep learning algorithms. MLOps, software development, building web applications from start to finish, testing and deploying to production. Skilled in working with large language models (LLMs) and in deploying applications built on them (e.g. chatbots). Experience with, among others, Claude, OpenAI's ChatGPT and Google's Gemini.

Python. Proficiency with, among others, the following libraries which I have utilized in machine learning: Sklearn, numpy, pandas, matplotlib, TensorFlow, PyTorch. In addition, I have used Django and Flask when building web applications (and on the Javascript side also React).

R. Used extensively in data science tasks and in building web applications with the Shiny library. Also built automated data pipelines deployed to a Kubernetes cluster. Especially utilized libraries from the Tidyverse ecosystem. Skills include building statistical models, data analysis and data visualization.

MS Office (PowerPoint, Word, Outlook, Excel)
In Excel, skills include building financial models, data visualization, data analysis and automation using VBA programming.

PowerBI. Reporting tool. Building various visualizations to support decision-making.

Other technologies/languages/programs I have used: SQL, MongoDB, Oxmetrics7 (statistical software), Java, Scala, Javascript, Octave, Tableau and Spotfire, Docker, Kubernetes, Google Cloud, Azure, Linux.

Hobbies:

In my spare time, if I'm not with my kids, I read books or go for a run. I also throw javelin from time to time (I previously competed at the national level). In addition, I develop my own AI experiments, follow developments in the field and play the piano.