

Education

- **University of Helsinki** Helsinki, Finland
PhD in Computer Science Aug. 2020 - present
 - Researcher in Algorithmic Data Science group
 - Supervisor: Prof. Michael Mathioudakis
 - **Thesis Topic:** Efficient end-to-end Machine Learning Pipelines
- **Aalto University** Otaniemi, Finland
Master of Science in Machine Learning, Data Science and AI Sep. 2018 - May. 2020
 - Full Tuition Scholarship Student
 - **Thesis Topic:** Vote Prediction Models for Signed Social Network
- **R.V College Of Engineering** Bangalore, India
Bachelor of Engineering in Computer Science and Engineering Aug. 2014 - May. 2018
 - 3rd rank in department
 - **Thesis Topic:** “Extract-Transform-Load of Financial Transaction Tax data using Elasticsearch”

Work Experience

- **University of Helsinki** Helsinki, Finland
Teaching Assistant, Network Analysis Jan 2021- March 2021
 - Worked with Prof. Michael Mathioudakis
 - Created and graded assignments
 - Organized tutorials on advanced concepts
- **Aalto University** Otaniemi, Finland
Research Assistant, Data Mining Group May 2019- May 2020
 - Worked with Prof. Aristides Gionis and Bruno Ordozgoiti
 - **Wikipedia RfA Project:** predicting voter behaviour in Wikipedia elections using network features
 - **Diversified Item Selection Project:** implemented and scaled up experiments
- **Aalto University** Otaniemi, Finland
Teaching Assistant, Algorithmic Methods of Data Mining Sep. 2019- Dec. 2019
 - Worked with Prof. Aristides Gionis and other teaching assistants
 - Created assignments and arranged exercise sessions
 - Managed course graders and project on balanced graph clustering
- **Goldman Sachs** Bangalore, India
Summer Thesis Worker Jan. 2018 - May. 2018
 - Worked in **Client Experience Engineering** team
 - Machine Learning solutions for **client email prioritization**
 - Used **Conditional Random Fields**(CRFs) to tag and remove *disclaimers* from client emails
 - Performed Named **sentiment analysis** and Named Entity Recognition(NER) on emails
 - Platforms Utilized: pycrfsuite, sklearn, Protobuf, spaCy, Stanford CoreNLP
- **Goldman Sachs** Bangalore, India
Summer Analyst May. 2017 - July. 2017
 - Worked in **Tax Operations Technology** team
 - Imported large volume tax from DB2, Sybase IQ databases to **Elasticsearch** cluster
 - Set up, maintained and optimized multi-node Elasticsearch cluster in production environment

Skills

Languages: Python, C/C++, Java, Unix Shell, CUDA, OpenMP, R, Matlab

Machine Learning Frameworks: PyTorch, Tensorflow, Sklearn, Numpy, spaCy, Networkx

Database Tools: MySQL, DB2, Sybase IQ, Django framework, Elasticsearch, Spring Batch

Miscellaneous: Excellent troubleshooting and debugging skills

Languages

Mother Tongue: Tamil

English: Proficiency Level: C2. IELTS score: 8.5

Hindi: Good reading, writing and verbal skill

Hobbies and Extracurricular Activities

Parliamentary Debating

- **President** of Helsinki Debating Society (HDS) from Sep 2020
- **Finnish Debate Champion 2019** at FINDA University Championship 2019, Finland
- Participated and organized many national and international debate tournaments in both **British Parliamentary**(BP) and **Asians Parliamentary**(AP) formats

Rubik's Cube Enthusiast

Publications

- Bruno Ordozgoiti, Ananth Mahadevan, Antonis Matakos, and Aristides Gionis. Provable randomized rounding for minimum-similarity diversification. *Data Mining and Knowledge Discovery*, 36(2):709–738, March 2022
- Ananth Mahadevan and Michael Mathioudakis. Certifiable unlearning pipelines for logistic regression: An experimental study. *Machine Learning and Knowledge Extraction*, 4(3):591–620, 2022
- Arpit Merchant, Ananth Mahadevan, and Michael Mathioudakis. Scalably using node attributes and graph structure for node classification. *Entropy*, 24(7), 2022
- Ananth Mahadevan, Arpit Merchant, Yanhao Wang, and Michael Mathioudakis. Robustness of sketched linear classifiers to adversarial attacks. In *International Conference on Information and Knowledge Management*. Association for Computing Machinery, 2022

Links and Other details

Date of Birth 31st July 1996

Nationality Indian

Github <https://github.com/ananth1996>

GitLab <https://version.helsinki.fi/mahadeva>

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University Profile <https://researchportal.helsinki.fi/en/persons/ananth-mahadevan>

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