

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- Mar 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++, Unix Shell, R

Machine Learning Frameworks: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, CUDA

Graph and Network Tools: NetworkX, PyTorch Geometric, SNAP

Database Tools: Spark, Neo4J, MariaDB, Elasticsearch

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 till Jan 2023
- **Finnish Debate Champion 2019** at FINDA University Championship 2019, Finland

Rubik's Cube Enthusiast

Publications

- Ananth Mahadevan and Michael Mathioudakis. Cost-effective retraining of machine learning models. *arXiv preprint arXiv:2310.04216*, 2023
- David Rosson, Eetu Mäkelä, Ville Vaara, Ananth Mahadevan, Yann Ryan, and Mikko Tolonen. Reception reader: Exploring text reuse in early modern british publications. *Journal of Open Humanities Data*, Apr 2023
- Ananth Mahadevan, Arpit Merchant, Yanhao Wang, and Michael Mathioudakis. Robustness of sketched linear classifiers to adversarial attacks. In *Proceedings of the 31st ACM International Conference on Information & Knowledge Management, CIKM '22*, pages 4319–4323, New York, NY, USA, 2022. Association for Computing Machinery
- Arpit Merchant, Ananth Mahadevan, and Michael Mathioudakis. Scalably using node attributes and graph structure for node classification. *Entropy*, 24(7), 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
- 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

Links and Other details

Date of Birth 31st July 1996

Nationality Indian

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

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

LinkedIn www.linkedin.com/in/ananth-mahadevan-75411651

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

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