Ananth Mahadevan
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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*
  - 3^{rd} 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 advacned 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 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, Sklearn, Numpy, pandas, CUDA

Graph and Network Tools: Networkx, Pytorch Geometeric, 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

- 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`

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