

Atreya Ray

DATA SCIENTIST

Contact

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Skills

PROGRAMMING LANGUAGES:

(in order of proficiency)

Scala, Python, Javascript, C++, R

DATA SCIENCE LIBRARIES:

numpy, pandas, matplotlib, seaborn, scikit-learn, keras

TOOLS:

Jupyter Notebook, Latex, Git, React, NodeJS,
MongoDB, Jest, Cypress, Redux

CERTIFICATIONS:

Full Stack Open by University of Helsinki

LANGUAGES:

Proficient in English, and Hindi
Beginner in Finnish

Projects

FINNISH HOUSING MARKET PREDICTION

- Performed EDA, clustering and time series analysis for the Finnish housing market.
- Predicted future house prices using Time Series methods like SARIMAX and Prophet.

IQ GROWTH TRENDS: BAYESIAN ANALYSIS

- Developed a Bayesian workflow for Linear Regression models analysing IQ growth trends using Stan.
- Studied convergence diagnostics, performance assessment, prior sensitivity analysis of the models

Achievements

- Type A (100%) Tuition Waiver from Aalto University
- Recipient of Dean's Incentive Scholarship from School of Science

Extracurriculars

- Member of Aaltoes (Entrepreneurship society)
- Vice Chair (2021), IE (2022) of Data Guild Ry.
- Freshmen Tutor

Education

BSC. DATA SCIENCE (SEPTEMBER 2019 -)

Aalto University, Espoo, Finland

- GPA: 4.87 (out of 5)
- Credits Achieved: 186 ECTS (out of 180 in BSc.)
- Minor in Economics
- Relevant coursework (completed/ongoing): *Statistical NLP, ML: Advanced Probabilistic Methods*, Bayesian Data Analysis, Methods of Data Mining, ML: Supervised Methods, AI, DS, Data Structures and Algorithms, Operating Systems,

HIGH SCHOOL DIPLOMA (APRIL 2005 - JUNE 2019)

Heritage Xperiential Learning School, India

- All India Secondary School Exam: 96%
- Class Representative, Student Government (2019)
- Chief Editor of School Magazine (2018)
- Head of Communication, Annual Fest OC (2018)

Experience

TEACHING ASSISTANT (JANUARY 2021 -)

Aalto University, Espoo, Finland

- Courses - Data Structures and Algorithms, Operating Systems, Programming Studio A, and Programming 2
- Assisted in the management of courses with (avg) 200+ students.
- Provided academic help to students through one-on-one sessions over Zoom, working through general doubts and coding assignments.
- Managed 50+ hours of chat support answering student questions.

LEARNING RESOURCES DEVELOPER (MAY - AUGUST 2021)

Aalto University, Espoo, Finland

- Developed tutorial project on graphical user interfaces (GUIs) leveraging Scala Swing elements, and authored corresponding text materials integrated with interactive RST elements to enhance the reading experience.
- Produced code for graded exercises testing GUI concepts for the course and created a testing framework with the help of ScalaTest to write tests for the automatic grader and assisted with the implementation of exercise on Aalto APlus using Docker

INTERN, TECH: ANALYTICS & COGNITIVE (JULY- AUGUST 2020)

Deloitte, India

- Exposed to different methods of data preprocessing, data pipeline creation and analysis.
- Analysed data of 100+ Deloitte clients to predict dormancy in different clients using a Random Forest Classifier model.