

# ATREYA RAY

## EDUCATION

### Aalto University, Espoo Finland

BSc. Data Science

SEPTEMBER 2019 - PRESENT

- GPA : 4.9 (out of 5)
- Credits Achieved : 176 ECTS (out of 180 in BSc.)
- Minor in Economics
- Relevant coursework (completed/ongoing): Bayesian Data Analysis, Methods of Data Mining, Machine Learning: Supervised Methods, AI, Data Science, Data Structures and Algorithms, Operating Systems, Principles of Algorithmic Technique.

### The Heritage Xperiential Learning School, India

High School Diploma

APRIL 2005 - JUNE 2019

- Ranked in top 15 in school (Class of 2019)
- All India Secondary School Exam : 96%
- Class Representative, Student Government - 2019
- Chief Editor of School Magazine (Heritage Unplugged) - 2018
- Head of Communication, Annual Fest Organising Committee - 2018

## EXPERIENCE

### Aalto University, Espoo Finland- Teaching Assistant

JANUARY 2021 - PRESENT

- 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.

### Aalto University, Finland - Learning Resources Developer

May 2021 - August 2021

- Evaluated existing course materials read by 250+ students each year to determine possible contributions in the form of tutorials on graphical user interfaces (GUIs).
- Developed tutorial project 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 based on tutorial material. Created 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.

### Deloitte, India- Intern, Tech: Analytics and Cognitive

JULY 2020 - AUGUST 2020

- 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.

### CERN, Geneva - Summer Collaboration Trainee

JUNE 2018

- Attended lectures by eminent particle physicists in the largest particle physics laboratory in the world and developed understanding of particle physics experiments such as the CMS and Atlas project.
- Awarded a certification of participation upon passing a test on its culmination.

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## SKILLS

### PROGRAMMING LANGUAGES:

(in order of proficiency)

Scala, Python, Javascript, C++, Java, R

### DATA SCIENCE LIBRARIES:

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

### TOOLS:

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

### CERTIFICATIONS:

Full Stack Open by University of Helsinki

## PROJECTS

### - Predicting Helsinki's Humidity Level:

- Used open source weather data to determine relationships between weather attributes.
- Developed ML classification models to predict 'dry' or 'rainy' days with above 97% accuracy. [ [link](#) ]

### - Cassino Card Game:

- Created a card game using Scala.
- Extensive use of Java and Scala swing libraries along with unit testing using scalatest library. [ [link](#) ]

## ACHIEVEMENTS

- Type A (100%) Tuition Waiver from Aalto University
- Recipient of Dean's Incentive Scholarship from School of Science
- SAT Score : 1500 (Math: 800/800)
- School Topper for Computer Science (99%) in All India Secondary School Exam
- Hobby : Grade 5 Certification in Plectrum Guitar from Trinity College, London.

## Languages

- English - Proficient
- Hindi, Bengali - Native Speaker
- Finnish - Beginner

## Extracurriculars -

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