

Atharva Wandile

Boston, MA 02130 | Email: atharvaw31@gmail.com

[GitHub](#) | [LinkedIn](#) | [Website](#)

Technical Skills

- **Languages:** Python, Java, Go, Scala, JavaScript, Typescript
- **Tools and Technologies:** AWS (EMR, Athena, S3), MongoDB, Hadoop, Apache Spark, Redis, Docker, Kubernetes
- **Frameworks:** Tensorflow, PettingZoo, Flask, Django, JSwing, JUnit, Log4j
- **Libraries:** Pandas, Keras, PyTorch, Numpy, Matplotlib, OpenAI gym

Experience

Software Developer, Oak AI, Boston, MA

Jan. 2024 – Present

- Strengthened data access controls and amplified system transparency through an orchestrated audit, documentation, and clarification of Supabase RLS policies and externally visible entry points.
- Engineered an efficient algorithm resulting in the identification of duplicate documents based on text content.

Research Intern, Lab for Learning and Planning in Robotics, Boston, MA

May. 2023 – Jan 2024

- **Multi-Agent Reinforcement Learning:** Developed continuous macro-action environments for Multi-Agent Reinforcement Learning. Analyzed and tested continuous macro-action PPO algorithm for robotics and autonomous systems.
- **Hierarchical Reinforcement Learning:** Achieved state-of-the-art performance by training agents using option-critic and actor-critic algorithms for centralized multi-agent reinforcement learning on four rooms and petting zoo MPE environments.

Data Engineer, Redbus, Bangalore, India

Jan. 2020 - Jul. 2021

- **Big Data Pipelines:** Improved customer retention by 10% through the design and implementation of big data pipelines, ETL and parallel processing models for customer life cycle management with cross-functional communication with marketing teams for analysis; leveraging AWS cloud and database technologies (MongoDB, Cassandra, Postgres).
- **Distributed Parallel Processing in Spark:** Slashed processing times by 200% for weekly and monthly statistical analyses implementing Spark programs on AWS platform, enhancing efficiency.
- **Flask and Golang Web APIs:** Developed low latency Flask and Golang API's handling millions of hits per second. Optimized legacy api's to cut down response time by 50%.

Machine Learning Intern, Allgo Embedded Systems, Bangalore, India

Jun. 2019 - Aug. 2019

- **Tracking Driver Actions:** Led a research based project to identify activities of vehicle drivers given video input from dashboard cam and classify activities into distinct classes in realtime using computer vision and deep learning.
- **Deep Learning and Computer Vision:** Analysed and compared multiple models including 2 stream CNNs, LSTM and traditional CV techniques. Demonstrated final model with ability to correctly identify a smaller subset of actions with high accuracy up to 86%.

Software Engineer Intern, Edumerge Pvt. Ltd., Bangalore, India

Jun. 2018 - Aug. 2018

- **Performance Prediction:** Crafted a sophisticated regression model with 2% error margin tailored to anticipate the academic performance of a specific class. This model utilized historical performance data from a constrained dataset of 1000 students from the preceding batch and was particularly designed for proactive intervention. This precision contributed to data-informed decision-making and enhanced academic outcomes.

Education

Northeastern University, Boston, MA

May 2023

- Master of Science in Computer Science

GPA: 3.8/4.00

Related courses: Algorithms, Parallel Data Processing, Reinforcement Learning, Data Mining

JSS Science and Technology University (SJCE), Mysore, India

Jan 2020

- Bachelor of Engineering in Information Science

GPA: 9.14/10.00

Related courses: Data Structures, Object-oriented programming, Machine Learning, Cloud Computing

Projects

- **Distributed Real Time Collaborative Editor:** Developed responsive app for a distributed text editor (like google docs) that can support multiple users updating document in real-time and is fault tolerant by leveraging an architecture with data replication management and distributed transactions.
- **Distributed Hierarchical Agglomerative Clustering for Music Recommendation:** Evaluated distributed k-means clustering with average linkage clustering on Apache Spark using AWS EMR to group similar songs together from million song dataset for music recommendations.