

Mohammed Ataur Rahaman (Ataa)

ML Data Engineer | Analytical Researcher | Problem Solver | Mentor

“The Best among you are those who bring Greatest benefits to many others.”

(+44) 74058-90218

London, United Kingdom

ataago7@gmail.com

www.linkedin.com/in/ataago

www.github.com/Ataago

EXPERIENCE

Blueoptima, London — ML Data Engineer

Aug 2022 - Present

Started pursuing my Masters in Artificial Intelligence. While working Part Time in the R&D Team. Applying Machine Learning to source code, with Academic learning and collaboration.

Aug 2022: Relocated to London for Masters and Work.

- 2022 Aug : Expansion of BERT models with AST source code
- 2022 Nov : Bigger BERT Models training with 1M parameters.

Blueoptima, Bangalore — ML Data Engineer

July 2020 - July 2022

Worked in the R&D Team. Applying Machine Learning to source code, and building highly efficient production ready data workflows.

July 2020: Joined as Graduate Software Engineer.

- 2020 Aug : Planned and implemented large scale data curation workflows. Curated 2 Million data-points.
- 2020 Nov : Structured data in a centralized PostgresDB for easy access and managing of dependencies.
- 2021 Jan : Streamlined and laid architecture to have periodic maintenance and backed up data to S3.
- 2021 Mar : Feature Engineering for Enhancing NN with better interpretation. Work on Niche domain AST, CFG, DFG of source code.
- 2021 Apr : Created the standard End to End ML experiments tracking pipeline for the entire organization.
- 2021 May : Enhanced modeling with experiments using LSTM, Word embeddings like Doc2Vec (gensim), tokenizer, NER.
- 2021 Jun : Built and improvised CodeBERT multi class Transformers from hugging face.

July 2021: Promoted to Associate Machine Learning Data Engineer.

- 2021 Jul : improved models by interpreting the model weights to make sense of the learning.
- 2021 Aug : Implemented in house tokenizer and code mapper to help interpretability of models for source code.
- 2021 Sep : Data re Acquisition and data structural changes made to help reduce space, inodes usage on our infrastructure.
- 2021 Oct : Models ported to Kubernetes. Collaborated with DevOps to expand in-house kubernetes infrastructure to 25 nodes.
- 2021 Nov : Improved the synthetic source code (data) in terms of quality to bring out the features for the models.

SKILLS

Languages:

Python 5+ years

MySQL 8+ years

Postgres 2+ years

C, C++ 2+ years

HTML, js, php 2+ years

css, jinja 1+ years

Assembly Lang 6+ months

Domain:

ML Algorithms 3+ Years

NLP 2+ years

Graphs 3+ years

Statistics 2+ years

Operating Systems:

Linux 6+ years

MacOS 4+ years

Windows 17+years

Tools:

ML Flow 1+ years

Kubernetes 1+ years

pyCharm 5+ years

Android Studio 2+ years

Arduino 6+ months

Others:

Presentation Skills 8+ years

Mentor 4+ years

Manager 1+ years

- 2022 Jan : Trained in-house Roberta model from scratch on local Infrastructure setup on premise with multiple GPUs.
- 2022 Feb : Scaled up In House transformer with support to multiple languages.
- 2022 Mar : Raised Issue with a solution on hugging face transformers API open source code base.

April 2022: Promoted to Machine Data Learning Engineer.

- 2022 Apr : Improved Code interpretation visualizer and aggregation / thresholding for model predictions.

EDUCATION

Dayananda Sagar Institution, Bangalore — Computer Science & Engineering

August 2016 - June 2020

Aggregate : 8.97 / 10 : First Class with Distinction

Narayana PU College, Bangalore — Class 12th

August 2014 - June 2016

Aggregate : 85 : Distinction

Akshara International School, Anantapur — Class 10th

August 2013 - June 2014

Aggregate : 10 / 10 : Distinction

PROJECTS & TRAININGS

Android Application for College

2017: Android Application for College : College Notifications, Timetable and book selling features implemented for android phones.

Smart Shoe based on Arduino

2018: Senses the steps running/walking on the shoe and sends it to the Phone, also implementing Home Automation for lights and fan through voice commands.

Discord BOT to Manage servers

2018: Using Discord API for Python to manage servers on Discord having various functionalities like Moderation, YouTube music playback, voting system etc. git: <https://github.com/Ataago/GO-BOT-Discord>

Gaming Café Administration Tool

Application built on Python Tkinter and MySQL database for real time monitoring of clients(gamers) in a gaming café and also keep track of logins and games played.

Online Technical Trainer

Helped Classmates in learning Engineering Subjects over Skype in an Interactive Sessions conducted by myself.

ACHIEVEMENTS

2017: Achieved 1st Prize in College Level Hackathon for creating a social android application called Do Something.

2018: Accomplished Course from Swinburne University, Melbourne on Concepts of Game Developments

2019: Accomplished Course offered by IBM on Machine Learning with Python.

HOBBIES & INTERESTS

Teaching
Tech Savvy
Online Gaming
Passion to Learn Mathematics
LEGO Technic & Mindstorms

DREAMS

PhD in NLP
Open source contributor
Teacher

LANGUAGES

English, Hindi, Urdu, Telugu, Kannada