

# 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.”

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## 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