

# AbdelRahman AbdelFattah

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## Skills

**Proficient** C/C++, TypeScript/JavaScript, CSS, HTML, Git, Python, React.

**Moderate** Java, Svelte, Kotlin, Swift, REST, GraphQL, SQL, Go, Shell(Bash/Zsh), Linux, Docker, Kubernetes.

## Work Experience

### Indian Institute of Technology

Indore, India

Software Engineer

Sept 2020 - Aug 2021

- Collaborated with a four-person team to develop a CNN model that utilised YOLO as a foundation to improve the accuracy of ambient lighting conditions in the Mobile net architecture.
- Automated and optimised the data handling process for traffic signs, working with Ubuntu 20.04 did shell scripting, and employed other Linux tools.
- Significantly boosted the model's accuracy by 60%, which was yielding an accuracy of 70-78% under Indian street light. The older models, had an accuracy of 10-15%.
- **Technical Skills:** Python with PyTorch, NumPy, Matplotlib, Pandas, Scikit-learn, C++, Ubuntu Linux, Linux tools, Apt, Scripting, Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

## University Projects

### The Relation between GDP and IMR

Leeds, UK

University of Leeds

Feb 2022 - Apr 2022

- Analysing data from 1960 to 2020 and discover patterns in the data that show trends between Gross domestic product per capita, Infant Mortality rate, Literacy Rate, and Industrial Development.
- Study cross-sectional, longitudinal, and among various countries to find variations in trends and get the historical data to back up the change in the trend of our data.
- Specific case studies were traced back to trends seen in the UK and how they affected the GDP and IMR.
- **Technical Skills:** Tableau, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

### IPL Analysis

Leeds, UK

University of Leeds

Nov 2021 - Dec 2021

- Analysing data from 2008 to 2015 to discover patterns such as trends, correlations, and probabilities.
- Finding the differences between the best teams and players in various fields, as well as their performance on the field and the opponents.
- **Technical Skills:** Python with Pandas, matplotlib, Seaborn.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

### Study of the behavior of Serial Killers

Leeds, UK

University of Leeds

Oct 2021 - Dec 2021

- Study of serial killers behavior with various motives such as convenience (did not want children or spouse), enjoyment, power, escape, or avoiding arrest.
- Finding patterns in their starting and ending ages (when they are caught) and other factors of killing, as well as how it varies with different motives.
- **Technical Skills:** R with ggplot2, tidyr, R Markdown.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking.

## Achievements

2019 **319/340**, Graduate Record Examinations (GRE)

India

2018 **Elite**, DBMS NPTEL Exam

India

2018 **Elite**, C NPTEL Exam

India

2019 **Winner**, Smart India Hackathon (SIH)

India

2014 **Level 3**, TablaNiketan Exam

India

2014 **Level 1**, National Talent Search Exam (NTSE)

India

## Education

**University of Leeds***Leeds, UK*

MSc in Data Science and Analysis

*Sept 2021 - Current*

- Head of School International Excellence Scholar
- Working as a PAL Mentor
- **Courses:** Data Science, Programming for Data Science, Knowledge Representation and Reasoning, Statistical Theory and Methods, Learning Skills through Case Studies, Artificial Intelligence, Machine Learning, Statistical Learning

**Madhav Institute of Technology and Science***Gwalior, India*

BTech in Information Technology

*May 2016 - May 2020*

- Graduated with Distinction
- Selected for Industrial Visit among the top of the class

**Atomic Energy Central School***Indore, India*

High School

*Apr 2014 - Apr 2016*

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Computer Science